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WILLS BURKE KELSEY ASSOCIATES

August 25, 2010

Mr. Keith Wozniak
West Permits and Enforcement Section
United States Army Corps of Engineers - Chicago District
111 North Canal Street, Suite 600
Chicago, IL 60606-7206

Subject: Request for a Regional Permit 1 for the proposed Elgin Community
College West Parking Lot Addition, Phase II in Elgin, Illinois.
WBK Project No. 10-0004

Dear Mr. Wozniak:

On behalf of our client, Elgin Community College (ECC), Wills Burke Kelsey Associates, Ltd. (WBK) is submitting this request for a Regional Permit 1 for the impacts associated with the proposed West Parking Lot Addition – Phase II. The project is located in the SE ¼ of Section 21, Township 41N, Range 8E in Kane County, IL. More specifically, the center of the project is located at 42.017294°N and 88.325460°W.

The project consists of expanding an existing parking lot on the west side of the ECC campus to accommodate increased student capacity. The project will also include the creation of the necessary stormwater management facilities. The project will require the impact of two wetlands, totaling 0.51 acres, due to grading activities of the proposed parking lot and stormwater detention basin. The detention basin will be a wetland bottom basin to treat stormwater runoff prior to its discharge into the adjacent wetland complex. Mitigation will be provided through the purchase of credits in a wetland mitigation bank. It is anticipated that construction will start in March 2011 and last approximately three months.

The Regional Permit 1 Application Submittal for 0.51 acres of impacts to two wetlands is attached. This request includes the required information to assist in your review of the project. If you have any questions regarding the information contained in this submittal, please do not hesitate to contact me at 630-443-7755 or pverhalen@wbkengineering.com.

Respectfully submitted,

Patrick VerHalen, CPESC
Project Manager

c: Paul Dawson, ECC
Chris Lindley, WBK
File

**ELGIN COMMUNITY COLLEGE
PARKING LOT EXPANSION**
USACE Section 404 Regional Permit 1 Application

Prepared for:

ELGIN COMMUNITY COLLEGE
1700 SPARTAN DRIVE
ELGIN, IL60123

August 25, 2010

WBK Project Number 10-0004



Patrick VerHalen, CPESC
Project Manager
Kane County Qualified Wetland Review Specialist #W065



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PROJECT NARRATIVE

PROPOSED PROJECT

The proposed expansion of the West Parking Lot at Elgin Community College will consist of adding 511 parking spaces, lighting, and stormwater management facilities. The west parking lot has already been partially expanded to provide 375 parking spaces without impacting wetlands which are located nearby. This portion of the project will require 0.51 acres of wetland impacts to two small wetlands. These impacts are necessary to provide the required parking capacity and the necessary amount of stormwater management for the additional parking lot.

WETLANDS/ WATERS OF THE US

Wetlands were delineated by Christopher B. Burke Engineering West Ltd (CBBEWL), on July 10, 2002 for the Spartan Drive extension just south of the project area (See Tab 2 for complete Wetland Delineation Report). Five waters and five wetlands were identified, including Otter Creek. On March 20, 2010, WBK (formerly CBBEWL) visited the site to review the presence of the aquatic resources identified in the earlier report and to delineate additional wetlands. Based on the observations at the time of the site visit, the wetland report is considered valid.

The FQI of the wetlands has not been updated because the site visit was completed outside of the growing season (June 1 – October 15) required by the City of Elgin (Kane County Stormwater Management Ordinance).

Also during the site visit, additional wetlands were delineated (Wetlands 10-13). These wetlands are part of a large wetland complex identified on the Kane County ADID as High Functional Value. Wetlands 11, 12, and 13 are considered hydrologically connected to Wetland 10 based on field observations. The far western portion of Wetland 10 was used for mitigation of wetland and waters impacts for the extension of Spartan Drive (RAMS # 200300376). Due to their degraded condition, Wetlands 12 and 13 do not appear to provide the same water quality functions as Wetland 10. Wetlands 12 and 13 are not being considered High Quality Aquatic Resources. Data sheets from the site visit are included in Tab 3 of this permit submittal.

Table 1: Descriptions of Wetland Areas

DELINEATED AREA	DATA POINT	TYPE	Jurisdiction	SIZE (Ac) (On-site)	FQI	Required Buffer
Waters of the US 1	1A	Otter Creek	USACE ¹	± 1.0	N/A	50 feet
Waters of the US 2	3A	Open Water Pond	USACE ¹	± 0.5	N/A	30 feet
Waters of the US 3	8A	Open Water Pond	USACE ¹	± 1.1	N/A	50 feet
Waters of the US 4	6A	Open Water Pond	USACE ¹	± 0.4	N/A	30 feet
Waters of the US 5	10A	Open Water Detention Pond with Wetland Fringe	Elgin ¹	± 1.5	14.1	50 feet
Wetland 1	2A	Wetland Swale	USACE ¹	± 0.1	11.2	None
Wetland 2	4A	Wetland Fringe	USACE ¹	± 0.4	8.7	30 feet
Wetland 3	7A	Wetland Fringe	USACE ¹	± 0.2	6.5	None
Wetland 4	5A	Wetland Fringe	USACE ¹	± 0.1	4.9	None
Wetland 5	9A	Scrub/Shrub	USACE ¹	± 0.2	5.7	TBD
Wetland 10	A10	Wet Meadow	USACE ²	73.84	5.7	100 feet
Wetland 11	A11	Wet Meadow	USACE ²	0.34	3.3	30 feet
Wetland 12	A12	Wet Meadow	USACE ²	0.47	3.0	None
Wetland 13	A13	Wet Meadow	USACE ²	0.04	0.7	None

¹ Based on Jurisdictional Determination issued May 2, 2003.

² Based on WBK Field Visit March 22, 2010

PURPOSE AND NEED

Elgin Community College (ECC) is going through a rapid expansion of its campus due to the increased enrollment over the past decade. ECC is adding a library, additional class room buildings, and several parking lots. With the increase in student capacity in the classroom, ECC needs to provide infrastructure capacity for the additional student load. Some of the existing parking lots have been removed to provide the land for the additional buildings.

SCHEDULING OF ACTIVITY/ PHASES

An additional parking lot has already been constructed adjacent to the proposed lot. The proposed parking lot construction is to begin as soon as possible to provide the required space for student parking. Construction will likely be coordinated with the winter holiday break to minimize the disruption of student traffic on campus.

ADJACENT LANDOWNERS NAMES AND ADDRESSES

Available upon request

AVOIDANCE AND MINIMIZATION OF IMPACTS TO ON-SITE WETLANDS AND WATERS

The location of the proposed parking lot was chosen to provide additional parking spaces where the demand was needed and where the space was available. The parking lot and detention basin were designed to avoid impacts to Wetland 10 which is subject to mitigation for the complete Spartan Drive Extension to the south and west. The impacted wetlands are small wetlands, which provide little to no water quality functions compared to the larger wetland complex.

MITIGATION FOR WETLAND IMPACTS

Mitigation for impacts will be provided by Elgin Community College by purchasing mitigation bank credits from a USACE approved bank within the Fox River Watershed. ECC is currently seeking the purchase of 0.51 acres of certified credits. A paid receipt will be provided to the USACE upon completion of the purchase.

REGIONAL PERMIT CONDITIONS

REGIONAL PERMIT 1 – RESIDENTIAL, COMMERCIAL, AND INSTITUTIONAL DEVELOPMENTS – CATEGORY I

All of the conditions required for compliance with the RP1 are addressed in this section below in bold, for each of the respective conditions.

RP1 authorizes the construction of residential, commercial and institutional developments and associated infrastructure, such as roads, utilities, detention areas, and recreation areas, subject to the following requirements, that shall be addressed in writing and submitted with the notification:

- a. The impact to waters of the U.S. shall not exceed 1.0 acres. For projects that impact over 0.10 acres of waters of the U.S., the permittee is required to provide compensatory mitigation.

Impacts to wetlands and waters under USACE jurisdiction total 0.51 acres. Mitigation for the impacts will be provided through the purchase of 0.51 acres of mitigation credits from a bank within the Fox River Watershed.

- b. Projects that impact no more than 0.5 acres of waters of the U.S., and do not impact any high-quality aquatic resources, shall be processed under Category I.

Impacts to wetlands and waters under USACE jurisdiction total 0.51 acres. The project will be processed under Category II.

- c. Projects that impact over 0.5 acres up to 1.0 acres of waters of the U.S., or impacts high-quality aquatic resources shall be processed under Category II.

Impacts to wetlands and waters under USACE jurisdiction total 0.51 acres. The project will be processed under Category II.

- d. The permittee shall establish and/or enhance an upland buffer of native plants (or other appropriate vegetation approved by the District) adjacent to all created, restored, enhanced or preserved waters of the U.S., including wetlands. Created buffers should be established on 6:1 or gentler slopes. The following buffer widths are required:
 - 1. For any waters of the U.S. determined to be a high-quality aquatic resource, the buffer shall be a minimum of 100 feet;
 - 2. For any waters of the U.S. that do not qualify as wetland (e.g. lakes, rivers, ponds, etc.), the buffer shall be a minimum of 50 feet from the Ordinary High Water Mark (OHWM);
 - 3. For any jurisdictional wetland from 0.25 acres up to 0.50 acres, the buffer shall be a minimum of 30 feet; and
 - 4. For any jurisdictional wetland over 0.50 acres, the buffer shall be a minimum of 50 feet.

The District may allow buffer widths below the above-required minimums. It shall be incumbent on the applicant to demonstrate that no practicable alternatives are available that would not impact the required buffer widths.

Stormwater retention/detention facilities and pervious nature trails may be located in the buffer. However, the facility shall be setback to a minimum distance of 50% of the required buffer and the trail shall be setback to a minimum distance of 10% of the required buffer, leaving the remaining buffer footage (adjacent to the regulated area) to consist of native vegetation only or other appropriate vegetation approved by the District. The District may allow Best Management Practices, small boat launches and boat houses, and piers/docks to be located in buffers.

Buffers are being provided adjacent to the construction area between the parking lot and the wetlands that are being preserved. Part of the construction includes the excavation of a stormwater detention basin between the parking lot, Wetland 10, and Spartan Drive. The parking lot will be a minimum of 50

feet from the edge of Wetland 10. The buffer and detention basin will be seeded with native vegetation. The detention basin will be a wetland bottom basin.

- e. All remaining, created, restored, or enhanced waters of the U.S. and adjacent buffers on the project site shall be permanently preserved and protected through deed restriction (or conservation easement). A draft deed restriction (or conservation easement) shall be provided with notification.

The remaining wetlands are on land owned by the Elgin Community College and will not be developed in the future based on the Current Facility Plan.

- f. No lot lines shall occur in created, restored, enhanced, or preserved waters of the U.S. and adjacent buffer areas on the project site. In instances where there is a demonstrated conflict between this lot line restriction and a local ordinance or state law, the District may accept physical measures such as the ordinance or state law, the District may accept physical measures such as the installation of split-rail fencing or other means of separating the protected area, posting of signs marking the limits of the protected areas, and establishing a party responsible for the long-term management of the protected areas in lieu of recording such areas as separate outlot property deeds.

There are no proposed lot lines within preserved waters of the US or buffer areas.

- g. The project shall employ Best Management Practices (BMPs) to protect water quality, preserve natural hydrology, and minimize the overall impacts of development on aquatic resources. BMPs shall be considered at the earliest planning stages of the project.

The applicant shall design the project to include the preservation of natural resource features such as floodplains, streams, lakes, steep slopes, significant wildlife areas, wetlands, natural depressions and drainage ways, prairies, woodlands, sensitive aquifers and their recharge areas and native soils. In addition, the design elements utilized by the applicant shall include an appropriate combination of those provided on the list below:

1. Minimize mass grading and disturbance of soils;
2. Lay out streets and lots to conform to the natural topography of the site;

3. Minimize new impervious surfaces by clustering of neighborhoods and homes, minimizing street widths and parking lots, and reducing lot sizes and building setbacks.
4. Preserve and create natural landscaping, buffers and filter strips;
5. Utilize permeable areas to maximize infiltration of runoff into the ground through the use of bio-filters, filter strips, swales, infiltration trenches, permeable pavement and native vegetated open spaces;
6. Direct runoff to permeable areas and/or utilize stormwater for reuse by:
 - a. Directing roof runoff towards permeable surfaces, drywells, French drains, vegetated swales, or other BMPs instead of driveways or other non-permeable surfaces;
 - b. Grading impervious surfaces to direct runoff to permeable areas, utilizing level spreaders or other methods to distribute the impervious runoff onto pervious surfaces;
 - c. Using cisterns, retention structures or rooftops to store precipitation or runoff for reuse; and
 - d. Removing berms and designing pavement edges (e.g., curb cuts) in order to direct water to permeable landscaped areas.
7. Improve water quality of stormwater leaving the site through the use of a naturalized detention basin designed to maximize the removal and transformation of runoff pollutants. Design should include:
 - a. Emergent vegetation in the bottoms of the wetland basins and along the periphery of wet bottom basins, and side slopes vegetated in native prairie (traditional dry bottom basins are not approved BMPs);
 - b. Stilling basins at major detention basin inlets and maximizing the distance between major inlets and the basin outlet.
 - c. Installation of pre-settlement or mechanical stormwater treatment units prior to discharge of stormwater into primary detention basins; and
 - d. In locations where detention basin discharge to adjacent/ downstream wetlands, designing detention basin outlet structures to spread and infiltrate runoff through the use of level spreader devices.

The stormwater runoff from the parking lots will be diverted (through storm sewers) to a wetland-bottom detention basin. This will encourage infiltration of the runoff in addition to treatment of stormwater by native vegetation. The site was designed to minimize wetland impacts and to prevent unfiltered stormwater runoff from discharging directly to wetlands. The adjacent parking lots which have already been constructed will also be routed through the wetland-bottom basin.

- h. Stormwater management facilities shall generally not be constructed in a linear body of water such as a river, or perennial, intermittent, or ephemeral stream or creek, unless there is substantial evidence that the project will provide a benefit to the aquatic system.

There are no stormwater management facilities proposed to be constructed in linear bodies of water.

- i. The project shall be designed such that stormwater does not directly discharge into waters of the U.S. All water shall be infiltrated or detained and treated prior to discharging into waters of the U.S. In addition, stormwater shall be discharged using methods that promote infiltration and water quality treatment, such as level spreaders, infiltration trenches, and vegetated swales.

Stormwater from the proposed parking lot and adjacent parking lots will be routed into a wetland-bottom detention basin. The runoff will infiltrate into ground water which recharges the adjacent wetland.

- j. This permit does not authorize the underground piping of a linear water body.

There is no underground piping of linear waters proposed in this project.

- k. For a project site adjacent to a conservation area, the permittee shall request a letter from the organization responsible for management of the conservation area, which recommends measures to protect the area from potential impacts that may result from the development. A copy of the request and any response received from the organization shall be submitted to the District with the notification.

This project is not adjacent to a conservation area.

- l. The project shall be a single and complete project. For example, if construction of a residential development involves phases, the sum of all impacted areas would be the basis for deciding whether or not the project will be covered under this Regional Permit.

This project is a single project involving wetland impacts.

- m. All roads shall adhere to items e through o, as listed in under Regional Permit 3, "Transportation Projects", which shall be addressed in writing and submitted with the notification.

There are no proposed roads in this project.

- n. All utility lines shall adhere to items d through q, as listed in under Regional Permit 8, "Utility Line Projects", and shall be addressed in writing and submitted with the notification. Utility Line Projects are subject to individual water quality certification under Section 401 of the Clean Water Act for certain water bodies as listed under RP 8 condition d.

There are no proposed impacts to wetlands created solely by utility lines. If it becomes necessary to install utility lines through wetlands, a permit modification will be requested so that the requirements of RP 8 are met.

- o. All temporary construction activities which adhere to items b through i, as listed in under Regional Permit 7, "Temporary Construction Activities" which shall be addressed in writing and submitted with the notification.

There are no temporary construction impacts to wetlands or waters of the US proposed. If it becomes necessary to cause impacts due to construction activities, they will be done in a manner which meets the requirements of RP7.

- p. This permit shall not be used in conjunction with any other regional permit except RP10.

There are no other regional permits being requested with this permit.

AUTHORIZATIONS REQUIRED BY OTHER AGENCIES

UNITED STATES FISH AND WILDLIFE SERVICE

Consultation with the USFWS has been initiated for compliance with the Endangered Species Act (16 U.S.C.1531 et. seq.). USFWS provided clearance on September 21, 2005 for the Spartan Drive Extension which included the current project area. This clearance has expired and USFWS is no longer performing the initial consultation. WBK has reviewed the project area for the potential of the two Federally- listed species known in Kane County, Sheepnose Mussel (*Plethobasus cyphus*) and Eastern Prairie Fringed Orchid (*Platanthera leucophaea*). WBK has concluded that the project area does not contain either of the two species nor the necessary habitat to support the species. A copy of the previous sign-off and of WBK's No Effect determination is included in Tab 5 of this submittal.

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

IDNR provided clearance of the Spartan Drive Extension Project (which includes the current project area) on March 7, 2003. This consultation has since expired. Consultation with the IDNR via the EcoCAT program has been initiated for compliance with the Endangered Species Protection and Natural Areas Preservation Act (Part 1075) and Wetland Review (Part 1090) on July 27, 2010. There were no protected resources identified within or adjacent to the project area. The consultation was terminated. Copies of the sign-off and EcoCAT consultation are included in Tab 5 of this submittal.

ILLINOIS HISTORIC PRESERVATION AGENCY

Consultation with the IHPA was initiated for compliance with the National Historic Preservation Act as amended (16 U.S.C.470) as part of the Spartan Drive Extension project which included the current project area. On April 25, 2003, the IHPA requested a Phase 1 Archaeological Survey be performed. On December 19, 2003, the Contract Archaeological Program at Northern Illinois University completed a Phase 1 survey and concluded that there were no archaeological remains encountered. On January 21, 2004, the IHPA provided clearance for Section 106 for the project area. Since there have been no major changes to the project area since the Phase 1 Survey was completed, the IHPA clearance is still valid. Copies of the sign-off and Phase 1 Survey are included in Tab 5 of this submittal.

KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT

Current plans have not yet been sent to the KDSWCD for their review. An application for review is being filed.

W:\Projects\2010\100004 ECC\ProjectMgt\Permits\USACE RP1\NAR.10.0629.100004.RP1.docx

TAB 1

**Joint Permit Application
Authorized Agent Letter
Electronic Copy of Submittal**

Prepared By: Wills Burke Kelsey Associates, Ltd.



Elgin
Community
College

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal



JOINT APPLICATION FORM

1. Application Number (to be assigned by Agency)		2. Date <div style="text-align: center;">08/25/2010</div> <div style="text-align: center; font-size: small;">Month / Day / Year</div>		3. For agency use only (Date Received)	
4. Name and address of applicant Elgin Community College Paul Dawson, Managing Director of Construction Projects 1700 Spartan Drive Elgin, IL 60123 Telephone no. during business hours (847) 214-7364 include area code (847) 622-3031			5. Name, address, and title of authorized agent Wills Burke Kelsey Associates, Ltd. Patrick VerHalen, CPESC 116 W. Main Street, Suite 201 St. Charles, IL 60174 Telephone no. during business hours (630) 443-7755 include area code (630) 443-0533		
6. Project Description and Remarks: Describe in detail the proposed activity, its purpose, and intended use. Also indicate the drainage area at the watershed to the downstream limit. Use attachments if needed. The project consists of expanding a parking lot and providing stormwater utilities and detention basin. There will be 0.51 acres of wetland impact due to the construction of the parking lot and detention basin. The parking lot will be used for additional space for student parking as part of the numerous expansion projects on campus. The project is located at: 42.017294 N, 88.325460 W					
7. Names, addresses, and telephone numbers of all adjoining and potentially affected property owners, including the owner of the subject property if different from applicant. Elgin Community College owns all of the land adjacent to the proposed improvements.					
8. Location of activity Otter Creek Name of waterway at location of the activity Address: 1700 Spartan Drive, West Parking Lot Street, road, or other descriptive location Elgin In or near city or town Kane County County State Zip		Legal Description: <div style="text-align: center;">SE 21 41N 8E 3</div> <div style="text-align: center; font-size: small;">1/4 Sec Twp. Rge P.M.</div> UTM (Universal Transverse Mercator): If available <div style="text-align: center;">Zone North East</div> Elgin Name of Local Governing Community Illinois 60123 Code			
9. Date activity is proposed to commence 03/01/2011		Estimated Time of Construction 3 months			
10. Is any portion of the activity for which authorization is sought now complete? Month and Year the activity was completed		Yes <input type="radio"/> No <input checked="" type="radio"/> If answer is "Yes" give reasons in item 6. Indicate the existing work on drawings.			
11. List all approvals or certifications required by other federal, interstate, state, or local agencies for any structures, construction, discharges, deposits, or other activities described in this application. If this form is being used for concurrent application to the Corps of Engineers, Illinois Department of Natural Resources, and Environmental Protection Agency, these agencies need not be listed.					
Issuing Agency	Type of Approval Identification	No.	Date of Application	Date of Approval	
12. Has any agency denied approval for the activity described herein or for any activity directly related to the activity described herein?		Yes <input type="radio"/> No <input checked="" type="radio"/> (If "Yes", explain in item 6.)			
13. Application is hereby made for authorizations of the activities described herein. I certify that I am familiar with information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed		<div style="text-align: center;"> Signature of Applicant or Authorized Agent Patrick Kelsey, CPSS/SC Typed or Printed Name of Applicant or Authorized Agent </div>			



Elgin
Community
College

1700 Spartan Drive • Elgin, IL 60123-7193 • P 847-697-1000 • elgin.edu

July 27, 2010

U.S. Army Corps of Engineers
Chicago District
111 North Canal Street, Suite 600
Chicago, IL 60606-7206

Attention: Keith Wozniak, Chief, CELRC-TS-RW

Subject: Elgin Community College West Parking Lot Expansion Project
(WBK Project No. 10-0004)

Dear Mr. Wozniak:

This letter is to inform you that Elgin Community College authorizes Wills Burke Kelsey Associates, Ltd. (WBK) to act as its authorized agent regarding the above referenced project.

Very truly yours,

Elgin Community College

Paul A. Dawson
Managing Director of Construction Projects

TAB 2

**Wetland Delineation Report
Spartan Drive Extension
July 30, 2002**

Prepared By: Christopher B. Burke Engineering West, Ltd.



Elgin
Community
College

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal





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WILLS BURKE KELSEY ASSOCIATES

MEMORANDUM

DATE: March 23, 2010

TO: Mike Hall, PE, City of Elgin

CC: Paul Dawson, ECC
File

FROM: Patrick Kelsey, CPSS/SC, WBK
Kane County Qualified Wetland Review Specialist W-005

SUBJECT: Update of Wetland/Waters of the US Assessment for the Proposed Elgin Community College
Parking Lot Expansion in Elgin, Kane County, Illinois. WBK Project No. 10-0004

On March 20, 2010, Wills Burke Kelsey Associates, Ltd. (WBK) performed a site visit to update the locations of wetlands and waters of the US identified in the attached report. On July 30, 2002, Christopher B. Burke Engineering West, Ltd. (now WBK) completed a Wetland Assessment for the Proposed Spartan Drive Extension – Phase II in Elgin, Illinois. The report identified five waters of the US including Otter Creek, and five wetlands. WBK verified the locations of the aquatic resources during the site visit. Since WBK's site visit was completed outside of the growing season established by the Kane County Stormwater Management Ordinance as administered by the City of Elgin (June 1 – Oct 15), verification of the Floristic Quality of the on-site resources will be required within the above described growing season.

At this time, the Wetland Assessment Report referenced above is still considered valid until the floristic quality of the on-site aquatic resources is field verified.

The layout of the parking lot expansion has been designed to avoid impacts to the existing wetlands. There are no proposed wetland impacts associated with this project.



WEST

CHRISTOPHER B. BURKE ENGINEERING WEST, LTD.

116 West Main Street • Suite 201 • St. Charles, Illinois 60174-1854 • TEL (630) 443-7755 • FAX (630) 443-0533

July 10, 2002

Revised July 30, 2002

Crawford, Murphy & Tilly, Inc.
600 North Commons Drive, Suite 107
Aurora, Illinois 60504

Attention: Kelly Farley

Subject: Wetland/Waters of the U.S. Assessment of the Proposed Spartan Drive
Extension – Phase 2 in Elgin, Kane County, Illinois
(CBBEWL Project No. 02-914)

Dear Mr. Farley:

Christopher B. Burke Engineering West, Ltd. (CBBEWL) completed a wetland/waters of the U.S. assessment of the proposed Spartan Drive Extension – Phase 2 located in Elgin, Kane County, Illinois. The proposed Spartan Drive Extension – Phase 2 extends through the Spartan Meadows Golf Course located east of Randall Road, between existing Spartan Drive and College Green Drive. Five waters of the U.S. including Otter Creek and an unnamed tributary of Otter Creek and five wetlands were delineated within the proposed extension study area. An aerial photograph delineation is included as Exhibit 7. We understand that your firm is conducting the field survey of the flagged wetland and waters of the U.S. boundaries. Once the survey is completed, we recommend our staff review it for accuracy.

In our opinion, the delineated waters and wetlands are jurisdictional because they are either directly contiguous with, or located within the 100-year floodplain of Otter Creek (waters of the U.S. 1). Our opinion is based on an examination of aerial photography, the United States Geological Survey (USGS), Flood Insurance Rate Map, and our June 18 and July 26, 2002 site visits. We have prepared and submitted a request for a jurisdictional determination of the property to the U.S. Army Corps of Engineers (COE) verifying the jurisdictional status of the wetlands and waters of the U.S. If the COE determines the wetlands to be isolated and not under federal jurisdiction, the wetlands will be regulated under the *Kane County Stormwater Ordinance* (revised October 9, 2001; effective January 1, 2002).

Federal Regulations

Should the COE determine the delineated areas to be jurisdictional, the areas will be federally regulated as follows. Under Section 404 of the Clean Water Act, the COE regulates the discharge of dredged or fill material into jurisdictional "waters of the U.S.", including wetlands. Within the Chicago District Regional Permit Program, Regional Permit 3 (RP3) authorizes transportation projects necessitating jurisdictional wetland or waters of the U.S. impacts. Under RP3, wetland impacts associated with a single crossing cannot exceed a distance of 200 linear feet or 0.25 acre. Cumulative impacts for multiple crossings cannot exceed 2.0 acres. Any jurisdictional wetland or waters of the U.S. impact exceeding 200 linear feet or 2.0 acres requires authorization under the Individual Permit Program, which can be a lengthy process.

Under Regional Permit 3, the maximum acreage of jurisdictional wetland or waters of the U.S. fill permitted with no required mitigation is 0.25 acre. Areas of jurisdictional wetland or waters of the U.S. fill greater than 0.25 acre requires mitigation generally at a 1.5:1 replacement ratio. Regional Permit 3 also requires the permittee to establish and maintain an upland buffer of native plants within the right-of-way adjacent to all wetlands.

Kane County Regulations

On January 1, 2002, the Kane County Department of Environmental Management adopted the Kane County Stormwater Ordinance (Ordinance; revised October 9, 2001; effective January 1, 2002). Article 15 of the Ordinance regulates wetland impacts and mitigation, provided that the wetlands are not federally regulated by the COE.

The Ordinance has defined wetland impacts as the following:

- The dredging or filling of any wetland having an FQI greater than 25; or
- The dredging or filling of any other wetland if the cumulative impact is greater than 0.25 acres in size or if the impact is not approved under the Food Security Act.

Areas of wetland impact greater than 0.25 acre will require wetland mitigation under the Ordinance. Mitigation ratios have been established based on the Floristic Quality Index (FQI) of the wetlands. The FQI of a wetland is determined using methods developed by Swink and Wilhelm (*Plants of the Chicago Region*, 1994). The following table outlines the required mitigation ratios.

IMPACTED WETLAND	MITIGATION RATIO
FQI less than 7	1:1
FQI more than 7 but less than 16	2:1
FQI more than 16 but less than 25	3:1
FQI greater than 25	10:1 plus one half for each point by which the FQI exceeds 25
Threatened or endangered species present	3:1
Wetland impacts to more than one wetland on site	Mitigate at the standards applicable to the highest quality wetland

The Ordinance has also established required buffers to be maintained around created and preserved wetlands. Buffer widths are established based on the size and quality of the wetland.

Generally the following three steps must be attempted before federal authorization by the COE is issued:

- (1) Avoid wetlands and waters of the U.S.;
- (2) Minimize wetland and waters of the U.S. fill; and
- (3) Provide compensatory mitigation.

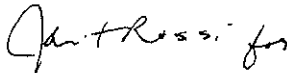
The attached report describes the identified wetlands and waters of the U.S., and the methodology and reference material used to assist in the assessment. Routine On-Site Data Forms, required by the COE, are also included. This wetland/waters of the U.S. assessment is based on field conditions at the time of the CBBEWL site visit and our understanding of current federal, state and local regulations. An evaluation of historic site conditions was not performed.

Please contact our office should you have any additional questions or if we can be of further assistance.

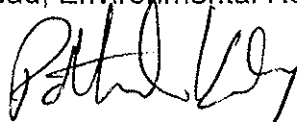
Sincerely,



Julie R. Gangloff
Environmental Resource Specialist



Kari J. Womack
Head, Environmental Resources Section II



Patrick D. Kelsey, CBSSc/SC
Environmental Resources Manager

JRG/jmr
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**WETLAND/WATERS OF THE U.S. ASSESSMENT REPORT
SPARTAN DRIVE EXTENSION – PHASE 2
ELGIN, KANE COUNTY, ILLINOIS**

WETLAND DELINEATION

On June 16 and July 26, 2002, Christopher B. Burke Engineering West, Ltd. (CBBEWL) completed a wetland/waters of the U.S. field investigation of the proposed Spartan Drive Extension – Phase 2 study area to determine the on-site wetland and waters of the U.S. boundaries. This report was prepared to document our findings and to determine if the on-site wetlands and waters of the U.S. are jurisdictional under Section 404 of the Clean Water Act. The study area is located east of Randall Road between Spartan Drive and College Green Drive in Elgin, Kane County, Illinois (Exhibit 1). Wetland and waters of the U.S. boundaries were delineated in accordance with the methodology established in the 1987 U.S. Army Corps of Engineers' (COE) *Wetland Delineation Manual*. The approximate wetland and waters of the U.S. boundaries are shown on Exhibit 7. Information collected on site is listed in the attached data forms.

METHODOLOGY

The Corps of Engineers' *Wetland Delineation Manual*, dated January 1987, identifies the mandatory technical criteria for wetland identification. The three essential characteristics of a jurisdictional wetland are hydrophytic vegetation, hydric soils and wetland hydrology as described below:

Hydrophytic Vegetation: The hydrophytic vegetation criterion is based on a separation of plants into five basic groups:

- (1) Obligate wetland plants (OBL) almost always occur (estimated probability >99%) in wetlands under natural conditions;
- (2) Facultative wetland plants (FACW) usually occur in wetlands (estimated probability 67-99%), but occasionally are found in non-wetlands;
- (3) Facultative plants (FAC) are equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%);
- (4) Facultative upland plants (FACU) usually occur in non-wetlands (estimated probability 67-99%), but occasionally are found in wetlands (estimated probability 1-33%); and
- (5) Obligate upland plants (UPL) almost always occur (estimated probability >99%) in non-wetlands under natural conditions.

If greater than 50% of the plants present are FAC (with the exception of FAC-), FACW, or OBL the subject area is considered jurisdictional in terms of vegetation.

Hydric Soils: Hydric soils are defined in the manual as "soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part." Field indicators include color, mottling, gleying, and sulfidic odor.

Wetland Hydrology: The wetland hydrology criterion is often the most difficult to determine. Typically, the presence of water for a week or more during the growing season creates anaerobic conditions. Anaerobic conditions lead to the prevalence of wetland plants. Morphological adaptations of plants, driftlines and watermarks are examples of wetland hydrology field indicators.

RESULTS AND DISCUSSION

STUDY AREA

The study area is located within the Spartan Meadows Golf Course between Randall Road and Elgin Community College. CBBEL identified five wetlands and five waters of the U.S. within the study area (Exhibit 7). In our opinion, the identified wetlands and waters of the U.S. will be regulated under Section 404 of the Clean Water Act because they are either directly contiguous with or located within the 100-year floodplain of Otter Creek. Regardless of federal jurisdictional status, the identified wetlands and waters of the U.S. are regulated under the Kane County Stormwater Ordinance and Technical Manual (Ordinance; revised October 9, 2001; effective January 1, 2002). The following table briefly summarizes the delineated areas.

DELINEATED AREA	DATA POINT	TYPE	SIZE ¹ (on-site)	FQI ²	COE BUFFER WIDTH ³	KANE COUNTY BUFFER WIDTH ⁴
Waters of the U.S. 1	1A	Otter Creek	±1.0 acre	N/A	50 feet	To Be Determined
Waters of the U.S. 2	3A	Open water pond	±0.5 acre	N/A	30 feet	To Be Determined
Waters of the U.S. 3	8A	Open water pond	±1.1 acres	N/A	50 feet	To Be Determined
Waters of the U.S. 4	6A	Open water pond	±0.4 acre	N/A	30 feet	To Be Determined
Waters of the U.S. 5	10A	Open water detention pond with wetland fringe	±1.5 acre	14.1 (wetland fringe)	50 feet	To Be Determined
Wetland 1	2A	Wetland swale	±0.1 acre	11.2	Not required	Not required
Wetland 2	4A	Wetland fringe	±0.4 acre	8.7	30 feet	15 feet
Wetland 3	7A	Wetland fringe	±0.2 acre	6.5	Not required	Not required
Wetland 4	5A	Wetland fringe	±0.1 acre	4.9	Not required	Not required
Wetland 5	9A	Scrub/shrub	±0.2 acre	5.7	To Be Determined	50 feet

¹Acreage is based on field reconnaissance only. We recommend the boundaries be field surveyed to calculate official acreage.

²Floristic Quality Index (FQI) determined using Swink and Wilhelm methods (*Plants of the Chicago Region*, 1994).

³Buffer widths required as part of the COE permit process supersede the widths required by Kane County.

⁴Kane County Buffer Widths were calculated using wetland acreage based on field reconnaissance only. Buffer size may change upon receipt of field surveyed boundaries.

IDENTIFIED WETLANDS

The following is a brief description of the identified wetlands with a list of the dominant plant species observed and their corresponding wetland indicator categories. A coefficient of conservatism (C-value) is also included for each plant species. C-values were established by Swink and Wilhelm (1999) to quantify a wetland's native attributes for comparative purposes.

Each plant species is rated on a scale of 0 to 10, 0-representing non-native or noxious species commonly found in a variety of habitats, and 10 representing plants found only under specific ecological conditions. The C-values of plants found in wetland areas can give some insight as to the overall quality or value of the wetland. Wetlands containing an abundance of plants with a low C-value suggest that these wetlands have been disturbed in the past. Wetlands containing an abundance of plants with a high C-value suggest that specific ecological conditions necessary for their survival are intact thus disturbance is probably minimal and the wetland maintains at least some of its original integrity.

Wetland 1

Wetland 1 is a wetland swale that is contiguous with Otter Creek. The ±0.1 acre wetland, characterized at data point 2A on Exhibit 7, is dominated by reed canary grass (*Phalaris arundinacea*), narrow-leaved cattail (*Typha angustifolia*) and common arrowhead (*Sagittaria latifolia*). Positive wetland hydrology was indicated by inundation throughout the wetland. Soils were mapped and field verified as Drummer silty clay loam, a poorly drained hydric soil.

The following lists identified plants with the calculated native mean C-value:

FLORISTIC QUALITY DATA							
14 NATIVE SPECIES	Native	14	70.0%	Adventive	6	30.0%	
20 Total Species	Tree	4	20.0%	Tree	0	0.0%	
3.0 NATIVE MEAN C	Shrub	1	5.0%	Shrub	0	0.0%	
2.1 W/Adventives	W-Vine	0	0.0%	W-Vine	1	5.0%	
11.2 NATIVE FQI	H-Vine	0	0.0%	H-Vine	0	0.0%	
9.4 W/Adventives	P-Forb	5	25.0%	P-Forb	3	15.0%	
-3.8 NATIVE MEAN W	B-Forb	0	0.0%	B-Forb	0	0.0%	
-3.0 W/Adventives	A-Forb	1	5.0%	A-Forb	0	0.0%	
AVG: Fac. Wetland (+)	P-Grass	1	5.0%	P-Grass	2	10.0%	
	A-Grass	0	0.0%	A-Grass	0	0.0%	
	P-Sedge	1	5.0%	P-Sedge	0	0.0%	
	A-Sedge	0	0.0%	A-Sedge	0	0.0%	
	Cryptogam	1	5.0%				
C SCIENTIFIC NAME				W WETNESS PHYSIOGNOMY COMMON NAME			
0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER				
4 Alisma subcordatum	-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN				
6 Carex sartwellii	-5 [OBL]	Nt P-Sedge	RUNNING MARSH SEDGE				
0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE				
0 Equisetum arvense	0 FAC	Cryptogam	HORSETAIL				
1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH				
0 HORDEUM JUBATUM	-1 FAC+	Ad P-Grass	SQUIRREL-TAIL GRASS				
4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS				
5 Lemna minor	-5 OBL	Nt A-Forb	SMALL DUCKWEED				
5 Lycopodium americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND				

0 LYTHRUM SALICARIA	-5 OBL	Ad P-Forb	PURPLE LOOSESTRIFE
5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
4 Sagittaria latifolia	-5 OBL	Nt P-Forb	COMMON ARROWHEAD
1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

Wetland 2

Wetland 2, characterized at data point 4A, is a wetland fringe located adjacent to Otter Creek (Exhibit 8). The ± 0.4 acre wetland is dominated by reed canary grass, narrow-leaved cattail, lake sedge (*Carex lacustris*), red-rooted spike rush (*Eleocharis erythropoda*) and stinging nettle (*Urtica dioica*). Positive wetland hydrology was indicated by saturated soils and areas of inundation. Soils were mapped and field verified as Houghton muck, a very poorly drained hydric soil.

The following lists identified plants with the calculated native mean C-value:

FLORISTIC QUALITY DATA							
12 NATIVE SPECIES	Native	12	63.2%	Adventive	7	36.8%	
19 Total Species	Tree	1	5.3%	Tree	0	0.0%	
2.5 NATIVE MEAN C	Shrub	1	5.3%	Shrub	1	5.3%	
1.6 W/Adventives	W-Vine	0	0.0%	W-Vine	0	0.0%	
8.7 NATIVE FQI	H-Vine	0	0.0%	H-Vine	0	0.0%	
6.9 W/Adventives	P-Forb	6	31.6%	P-Forb	3	15.8%	
-3.6 NATIVE MEAN W	B-Forb	0	0.0%	B-Forb	0	0.0%	
-2.7 W/Adventives	A-Forb	1	5.3%	A-Forb	0	0.0%	
AVG: Fac. Wetland (+)	P-Grass	0	0.0%	P-Grass	3	15.8%	
	A-Grass	0	0.0%	A-Grass	0	0.0%	
	P-Sedge	3	15.8%	P-Sedge	0	0.0%	
	A-Sedge	0	0.0%	A-Sedge	0	0.0%	
	Cryptogam	0	0.0%				

C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
4 Alisma subcordatum	-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
6 Carex lacustris	-5 OBL	Nt P-Sedge	COMMON LAKE SEDGE
2 Carex vulpinoidea	-5 OBL	Nt P-Sedge	BROWN FOX SEDGE
2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
0 HORDEUM JUBATUM	-1 FAC+	Ad P-Grass	SQUIRREL-TAIL GRASS
4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
5 Lycopodium americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
0 LYTHRUM SALICARIA	-5 OBL	Ad P-Forb	PURPLE LOOSESTRIFE
0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
4 Sagittaria latifolia	-5 OBL	Nt P-Forb	COMMON ARROWHEAD
1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
0 URTICA DIOICA	-1 FAC+	Ad P-Forb	STINGING NETTLE

Wetland 3

Wetland 3, characterized at data point 7A, is a wetland fringe of a pond (Exhibit 7). This ± 0.2 acre wetland is dominated by reed canary grass, common arrowhead and red-rooted spike rush. Positive wetland hydrology was indicated by inundation near the center of the wetland and saturated soils around the perimeter. Soils were mapped and field verified as Houghton muck, a very poorly drained hydric soil.

The following lists identified plants with the calculated native mean C-value:

FLORISTIC QUALITY DATA	Native	6	75.0%	Adventive	2	25.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.5 NATIVE FQI	P-Forb	5	62.5%	P-Forb	0	0.0%
5.7 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.8 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-2.5 W/Adventives	P-Grass	0	0.0%	P-Grass	2	25.0%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	12.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
4 Alisma subcordatum	-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
4 Sagittaria latifolia	-5 OBL	Nt P-Forb	COMMON ARROWHEAD
1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

Wetland 4

Wetland 4, characterized at data point 5A, is a wetland fringe located adjacent to an unnamed tributary of Otter Creek (Exhibit 7). This ±0.1 acre wetland is dominated by reed canary grass, common arrowhead, narrow-leaved cattail, common water plantain (*Alisma subcordatum*) and knee grass (*Panicum dichotomiflorum*). Positive wetland hydrology was indicated by the presence of surface water. Soils were mapped and field verified as Houghton muck, a very poorly drained hydric soil.

The following lists identified plants with the calculated native mean C-value:

LORISTIC QUALITY DATA	Native	6	75.0%	Adventive	2	25.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.9 NATIVE FQI	P-Forb	4	50.0%	P-Forb	0	0.0%
4.2 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-4.5 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-3.7 W/Adventives	P-Grass	0	0.0%	P-Grass	2	25.0%
AVG: Fac. Wetland (+)	A-Grass	1	12.5%	A-Grass	0	0.0%
	P-Sedge	1	12.5%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
4 Alisma subcordatum	-5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
4 Sagittaria latifolia	-5 OBL	Nt P-Forb	COMMON ARROWHEAD
1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

Wetland 5

Wetland 5, characterized at data point 9A, is located northeast of Otter Creek and extends off-site (Exhibit 7). This wetland is dominated by reed canary grass, stinging nettle and tall goldenrod (*Solidago altissima*). Positive wetland hydrology was indicated

by saturated soils. Soils were mapped and field verified as Drummer silty clay loam, a poorly drained hydric soil.

The following lists identified plants with the calculated native mean C-value:

FLORISTIC QUALITY DATA							
6 NATIVE SPECIES	Native	6	66.7%	Adventive	3	33.3%	
9 Total Species	Tree	1	11.1%	Tree	0	0.0%	
2.3 NATIVE MEAN C	Shrub	1	11.1%	Shrub	0	0.0%	
1.6 W/Adventives	W-Vine	0	0.0%	W-Vine	0	0.0%	
5.7 NATIVE FQI	H-Vine	0	0.0%	H-Vine	0	0.0%	
4.7 W/Adventives	P-Forb	4	44.4%	P-Forb	1	11.1%	
-1.3 NATIVE MEAN W	B-Forb	0	0.0%	B-Forb	1	11.1%	
-0.9 W/Adventives	A-Forb	0	0.0%	A-Forb	0	0.0%	
AVG: Faculative (+)	P-Grass	0	0.0%	P-Grass	1	11.1%	
	A-Grass	0	0.0%	A-Grass	0	0.0%	
	P-Sedge	0	0.0%	P-Sedge	0	0.0%	
	A-Sedge	0	0.0%	A-Sedge	0	0.0%	
	Cryptogam	0	0.0%				

C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
0 URTICA DIOICA	-1 FAC+	Ad P-Forb	STINGING NETTLE

IDENTIFIED WATERS OF THE U.S.

Waters of the U.S. are defined as the ordinary high water mark in non-tidal waters, provided the jurisdiction is not extended by the presence of wetlands. The term "ordinary high water mark" (OHWM) refers to the line established by fluctuations of water. These fluctuations can be indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, or the presence of litter and debris. The following is a brief description of the identified waters of the U.S.

Waters of the U.S. 1

Waters of the U.S. 1, characterized at data point 1A, represents Otter Creek (Exhibit 7). Otter Creek flows along the northern study area boundary and contains a small unnamed tributary. The unvegetated creek and tributary varies from five to fifteen feet wide and was inundated with various depths of water. The creek bed consisted of a mixture of silt and gravel. Soils were mapped and field verified along the banks of the creek as Houghton muck, a very poorly drained hydric soil.

Waters of the U.S. 2, 3 and 4

Waters of the U.S. 2, 3 and 4, characterized at data points 3A, 8A and 6A, respectively, are open water ponds located on the golf course (Exhibit 7). The ponds were unvegetated and were surrounded by manicured fairway turf grass. The ponds were inundated with more than 24 inches of water and soils were mapped and field verified as Houghton muck, a very poorly drained hydric soil.

Waters of the U.S. 5

Waters of the U.S. 5, characterized at data point 10A, is an open water detention pond located north of Spartan Drive between the golf course and the Elgin Community College (Exhibit 7). The pond contained a wetland fringe dominated by narrow-leaved cattail, sandbar willow (*Salix interior*) and chairmakers' rush (*Scirpus pungens*). The pond was inundated with more than 24 inches of water at the time of our field investigation. Soils were mapped as Lorenzo silt loam, a non-hydric soil. However, soil profiles revealed a low chroma matrix color and the presence of mottles, which are hydric soil indicators.

REFERENCE MATERIALS

The following reference materials were reviewed and used to assist in the wetland/waters of the U.S. field reconnaissance. They are included as Exhibits 1-7.

LOCATION

The proposed Spartan Drive Extension – Phase 2 study area is located within the Spartan Meadows Golf Course, east of Randall Road between Spartan Drive and College Green Drive in Elgin, Kane County, Illinois (Exhibit 1). Geographically, the study area is located in Section 21, Township 41 North, Range 8 East. The study area boundaries were taken from a plat of survey dated February 8, 2002, prepared by Landmark Engineering Group, Inc.

NATIONAL WETLAND INVENTORY

The National Wetland Inventory map (NWI), Elgin Quadrangle (1980), indicates wetland is mapped within the study area (Exhibit 2). The NWI serves only as a large-scale guide and actual wetland locations and types often vary from that mapped. The following type of wetland is mapped within the study area:

POWHx	-	Palustrine, Open Water, Permanently Flooded, Excavated
POWGx	-	Palustrine, Open Water, Intermittently Exposed, Excavated

SOIL SURVEY

The Soil Survey of Kane County, Illinois (1976), was reviewed to determine the location of hydric soils within the study area (Exhibit 3). Mapped hydric soil can be indicative of wetland conditions.

The following soils are mapped within the study area:

27D2	-	Miami silt loam	
103	-	Houghton muck	- Hydric
148B	-	Proctor silt loam	
149	-	Brenton silt loam	
152	-	Drummer silty clay loam	- Hydric

298	-	Beecher silt loam
318B	-	Lorenzo loam
318C2	-	Lorenzo clay loam
323D	-	Casco loam
531C2	-	Markham silt loam

NATURAL RESOURCES CONSERVATION SERVICE

The Kane County Natural Resources Conservation Service (NRCS) wetland inventory map (undated) indicates wetland is mapped within the study area (Exhibit 4). Because the property does not contain cropland, further consultation with the NRCS is not required.

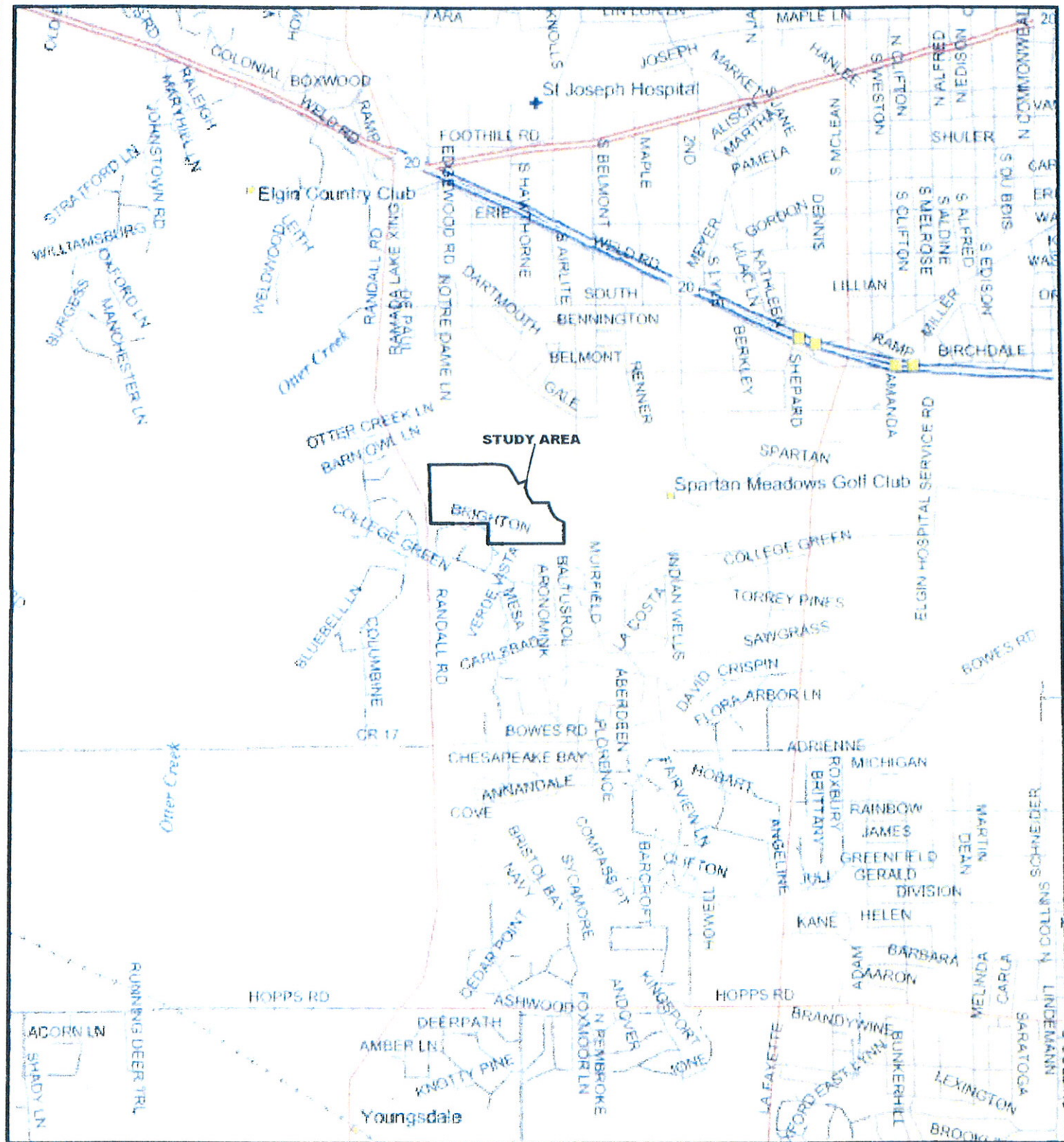
UNITED STATES GEOLOGICAL SURVEY

The USGS map, Elgin Quadrangle (1992), was reviewed to determine historic local drainage patterns (Exhibit 5). The Hydrologic Atlas indicates site runoff is tributary to Otter Creek.

FLOOD INSURANCE RATE MAP

The Flood Insurance Rate Map (FIRM) for Elgin, Illinois, Community Panel Number 170087 0006D, revised April 17, 1984, and Unincorporated Areas of Kane County, Illinois, Community Panel Number 170896 0035A, effective March 1, 1982 was reviewed to determine the location of regulatory floodplain within the study area (Exhibit 7). The presence of floodplain can be indicative of wetland hydrology. The FIRM indicates there is mapped 100-year floodplain within the study area.

JRG/jmr
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"NOT TO SCALE"



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CLIENT
CITY OF ELGIN

TITLE
LOCATION MAP

DSGN.	MEC	CHKD.	KJW
-------	-----	-------	-----

JOB#	02-914
------	--------




DATE	6/19/02
------	---------

EXHIBIT 1



POWHx = PALUSTRINE, OPEN WATER, PERMANENTLY FLOODED, EXCAVATED
POWGx = PALUSTRINE, OPEN WATER, INTERMITTENTLY EXPOSED, EXCAVATED

DSGN.	MEC	CHKD.	KJW
JOB# 02-914			
AND INVENTORY			DATE 6/19/02
			EXHIBIT 2

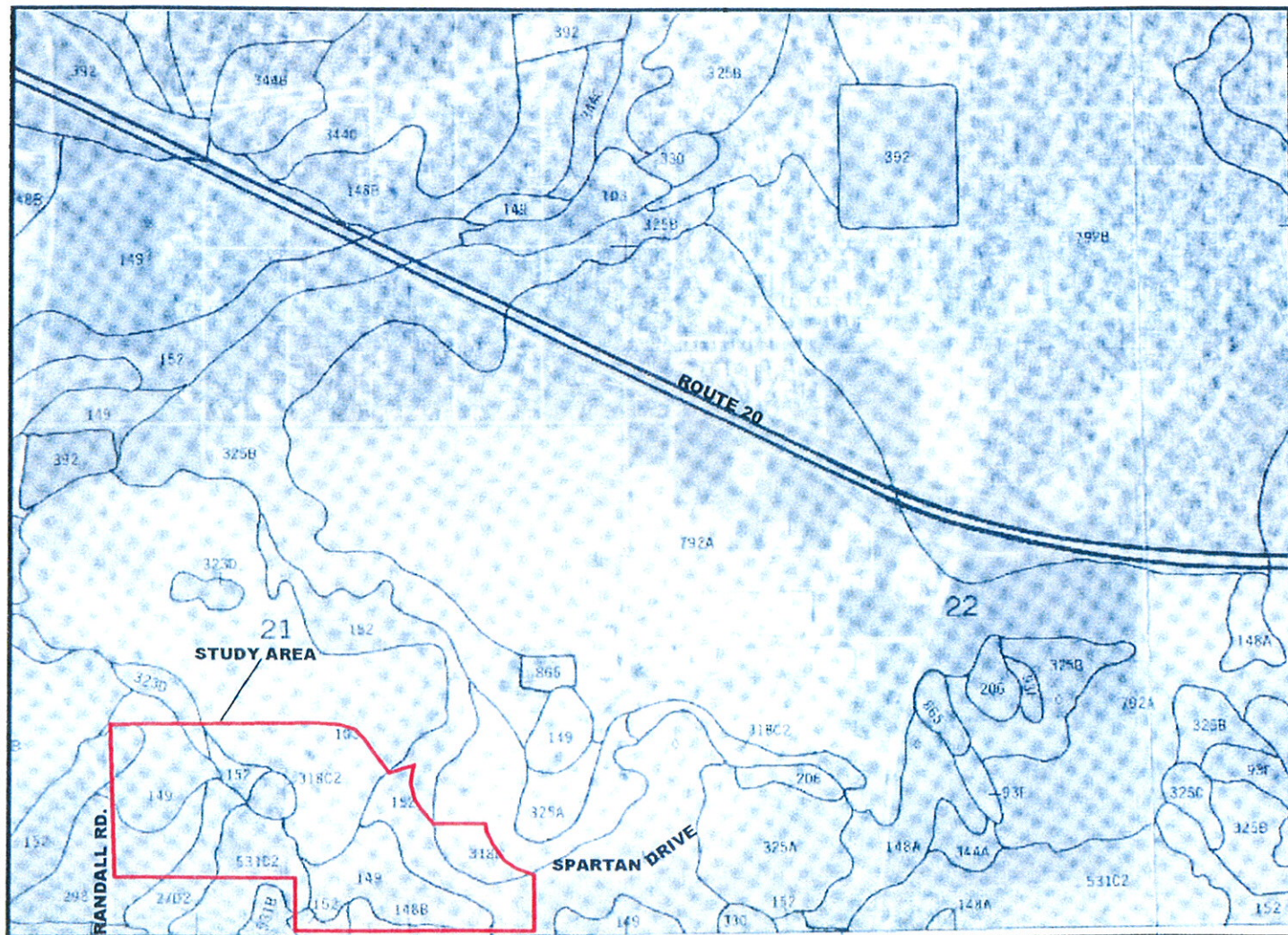


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(847) 823-0500 / FAX (847) 823-0520

CLIENT
CITY OF ELGIN

TITLE

NATIONAL WETLAND INVENTORY

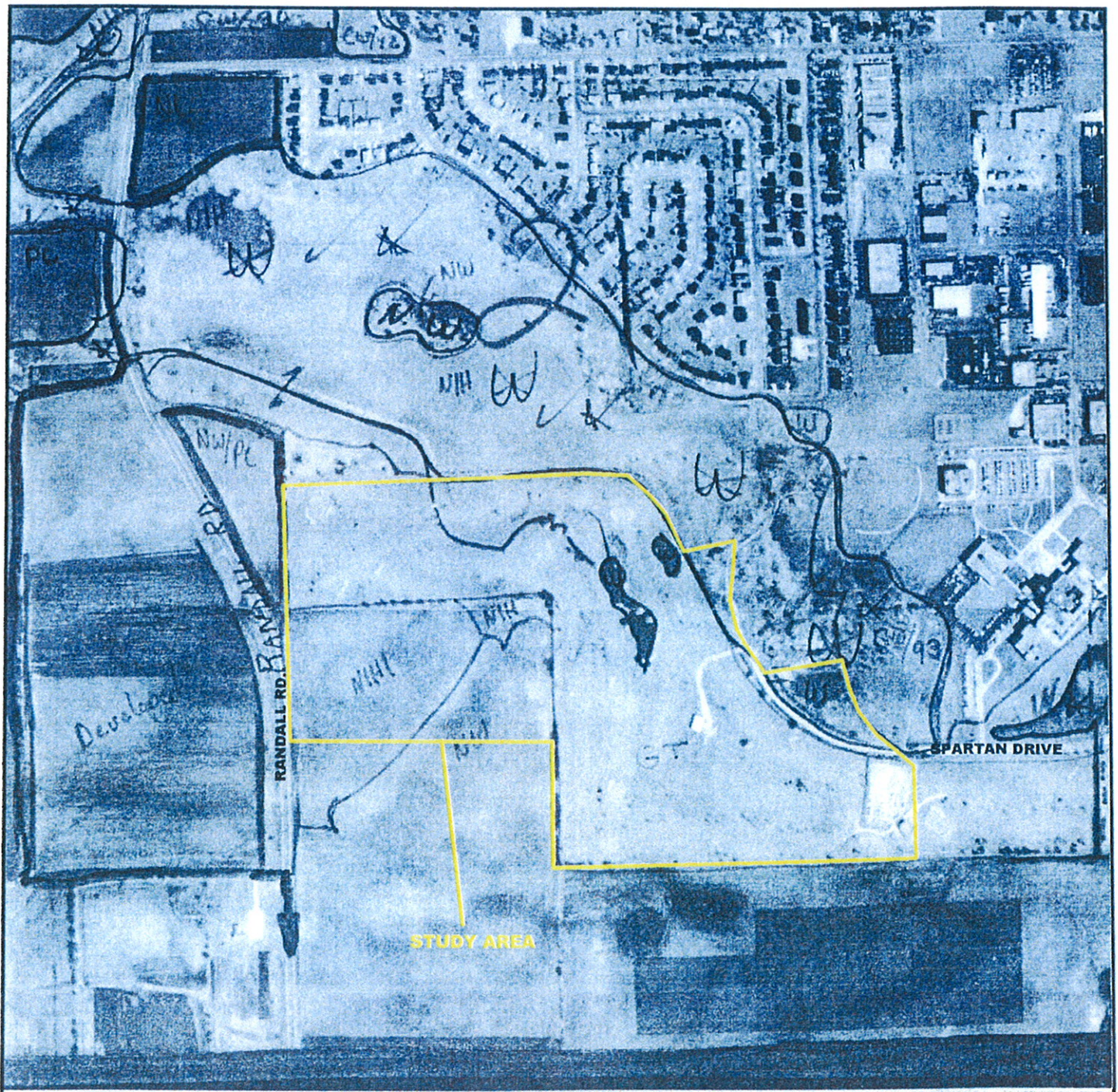


LEGEND

APPROXIMATE SCALE: 1" = 1350'



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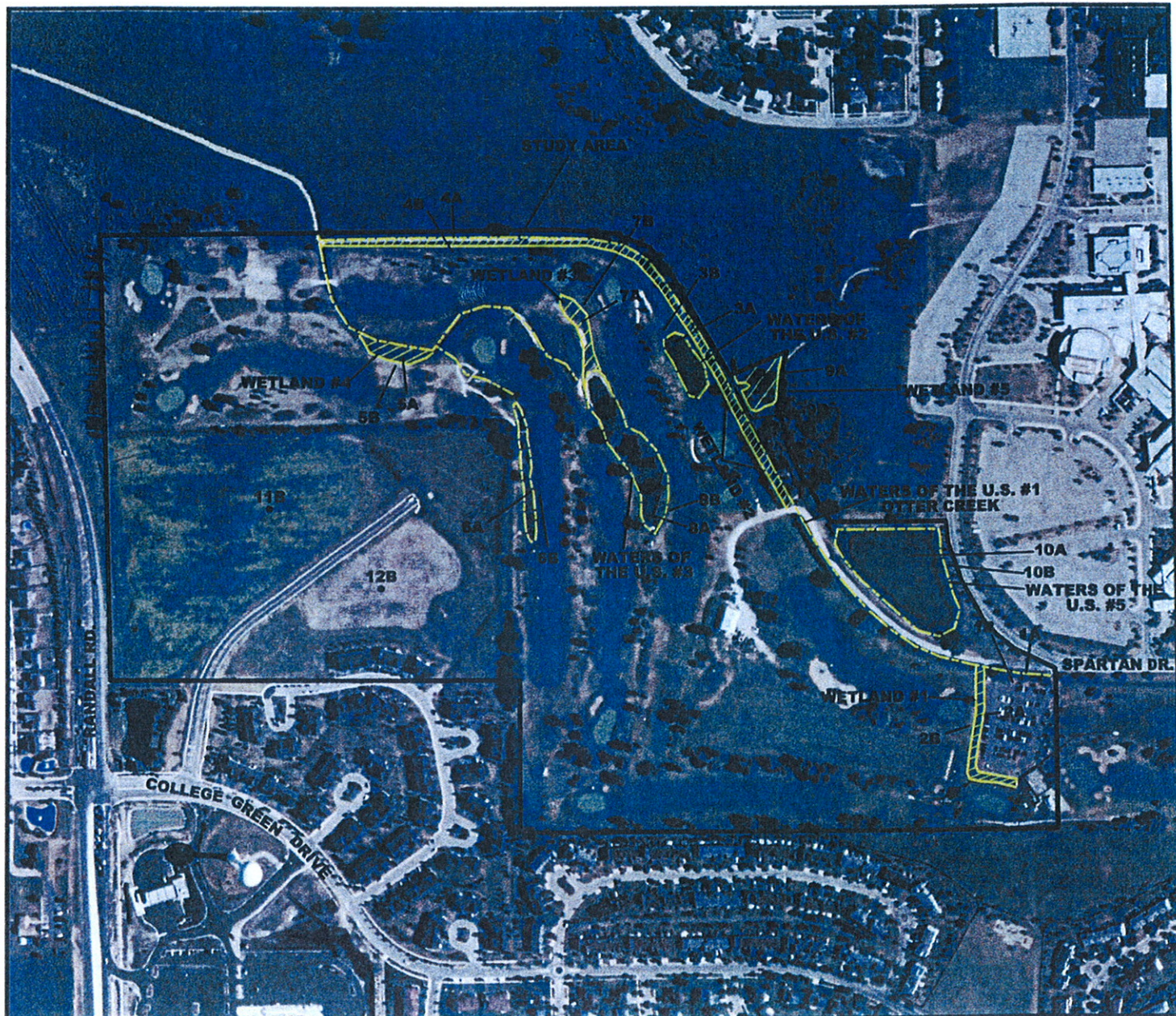
NOTE: TAKEN FROM THE NATURAL RESOURCES CONSERVATION SERVICE(NRCS) WETLAND MAP(UNDATED)



APPROXIMATE SCALE: 1" = 750'



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CLIENT CITY OF ELGIN	JOB# 02-914	
TITLE NRCS		DATE 6/19/02
		EXHIBIT 4



-  = WETLAND
-  = WATERS OF THE U.S.

NOTE: AERIAL PHOTOGRAPH TAKEN JULY, 2001

APPROXIMATE SCALE: 1" = 500'



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CLIENT
CITY OF ELGIN

TITLE
APPROXIMATE WETLAND
DELINEATION

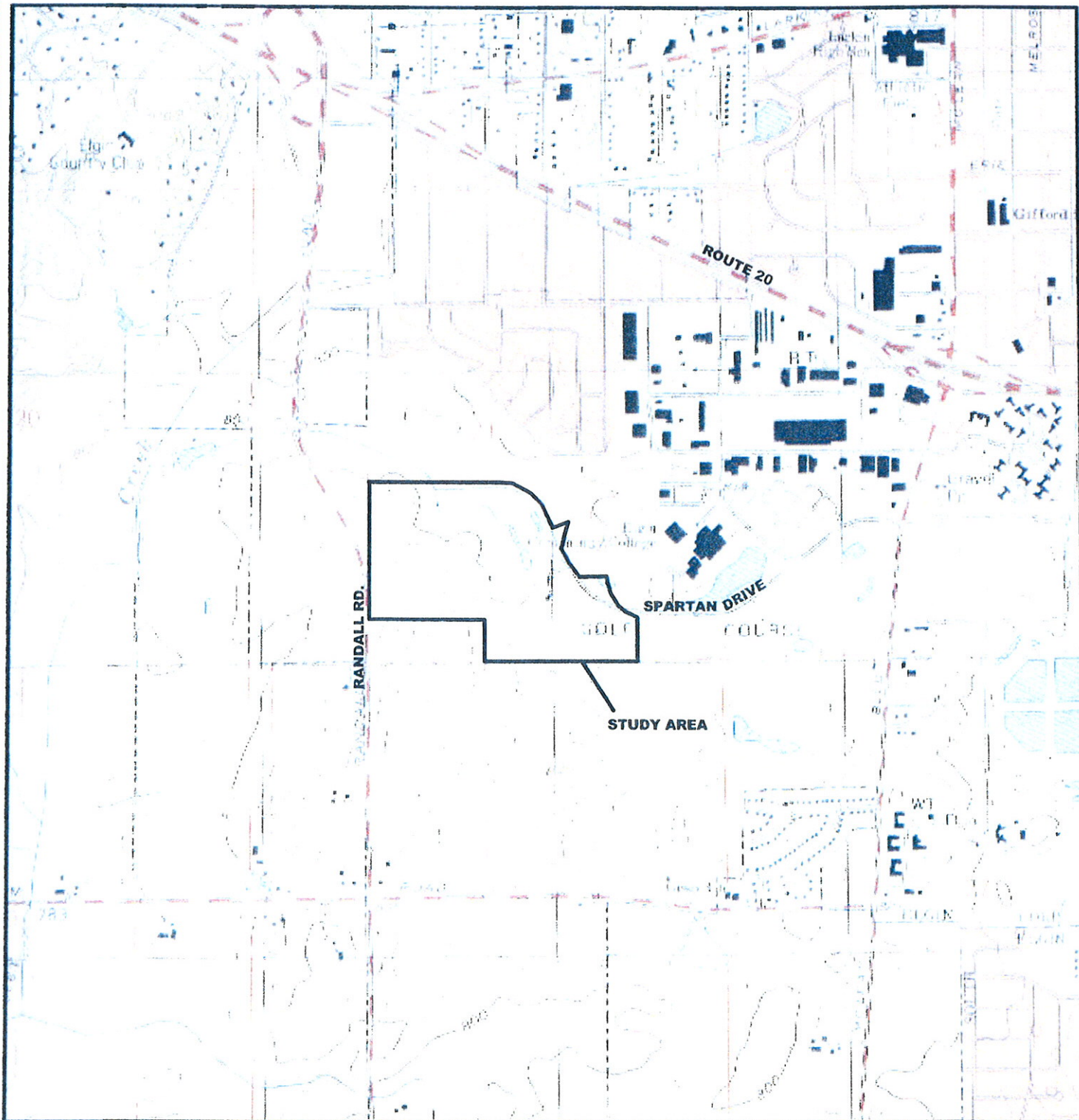
DSGN.	MEC	CHKD.	KJW
-------	-----	-------	-----

JOB#	02-914
------	--------



DATE	6/19/02
------	---------

EXHIBIT 7




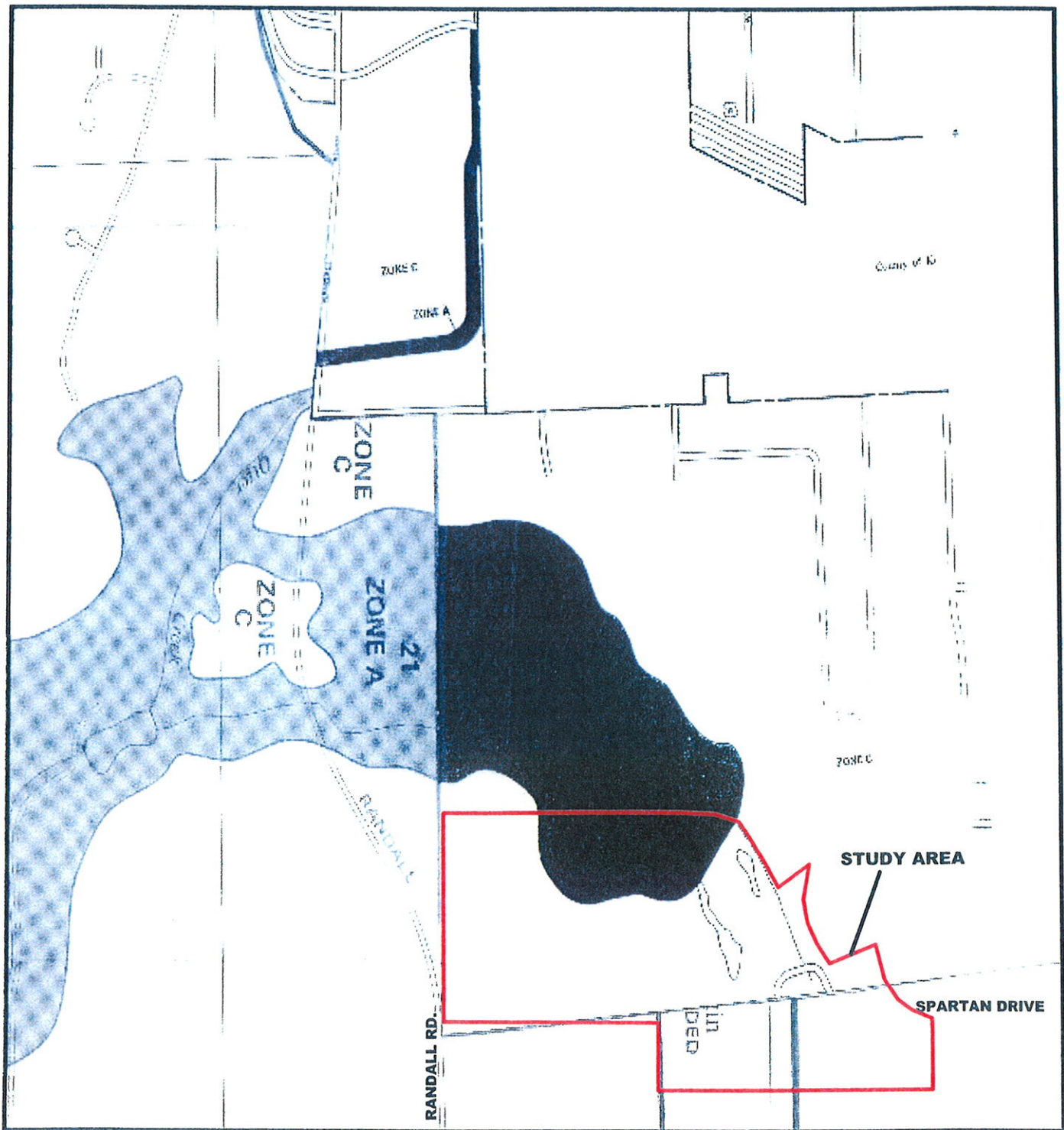
NOTE: TAKEN FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) MAP, ELGIN QUADRANGLE, ILLINOIS (1992)

APPROXIMATE SCALE: 1" = 1550'



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CLIENT CITY OF ELGIN	JOB# 02-914	
TITLE USGS MAP		DATE 6/19/02
		EXHIBIT 5




NOTE: TAKEN FROM THE FLOOD INSURANCE RATE MAP (FIRM) OF ELGIN, ILLINOIS, COMMUNITY-PANEL NUMBER 1700870006D, MAP REVISED: APRIL 17, 1984, AND COUNTY OF KANE, ILLINOIS (UNINCORPORATED AREAS), COMMUNITY PANEL NUMBER 1708960035A, EFFECTIVE DATE: MARCH 1, 1982

APPROXIMATE SCALE: 1" = 1000'



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CLIENT CITY OF ELGIN	JOB# 02-914	
TITLE FIRM	DATE 6/19/02	
	EXHIBIT 6	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Karl Womack/Julie Gangloff

Plot Number: 1A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
UNVEGETATED			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 1-8"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated in Upper 12 inches
☐ Water Marks
☒ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam

Map Symbol: 152

Drainage Class: Poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic Haplaquolls

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-10		N2/0				silty clay loam; fine granular structure
10-18		10YR2/1	2.5Y4/2	Common	Faint	silty clay loam; subangular blocky structure

Hydric Soil Indicators:

☐ Histosol

☐ Concretions



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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin	Project Name: Spartan Drive Extension	Project Number: 02-914
State: IL	Section: 21	Range: 8E
County: Kane	Township: 41N	
Date: 6/18/02	Determined By: Kari Womack/Julie Gangloff	

- | | |
|---|--|
| <input type="checkbox"/> Histic Epipedon
<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime
<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Other (Explain In Remarks) |
|---|--|

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: THE SAMPLING POINT REPRESENTS A WATERS OF THE U.S.

Plot Number: 1A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Karl Womack/Julie Gangloff

Plot Number: 1B

Under normal circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
UNVEGETATED			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis: The data point represents a parking lot

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
- ☐ Saturated Soils Depth To Saturated Soil:
- ☐ Saturated In Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam
Drainage Class: Poorly drained
Taxonomy (Subgroup): Typic Haplaquolls

Map Symbol: 152

Mapped Hydric Inclusion:

☐ Field Observations Confirm Mapped Type

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL **County:** Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 **Township:** 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

☐ Gleyed Or Low Chroma Colors

☐ Other (Explain In Remarks)

Remarks: The presence of concrete prohibited extracting a soil sample.

Hydric Soils Present? No **Basis:**

Hydrophytic Vegetation Present? No **Basis:** The data point represents a parking lot

Wetland Hydrology Present?: No **Basis:**

Hydric Soils Present? No **Basis:**

Wetland Determination: Nonwetland

Comments: NONE OF THE CRITERIA ARE PRESENT.

Plot Number: 1B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 2A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
Sagittaria latifolia	COMMON ARROWHEAD	Herb	OBL
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
Typha angustifolia	NARROW-LEAVED CATTAIL	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 0-6"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam

Drainage Class: Poorly drained

Taxonomy (Subgroup): Typic Haplaquolls

Map Symbol: 152

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-10		N2/0				silty clay loam; fine granular structure
10-18		10YR2/1	2.5Y4/2	Common	Faint	silty clay loam; subangular blocky structure

Hydric Soil Indicators:

- ☐ Histosol ☐ Concretions
☐ Histic Epipedon ☐ High Organic Content in Surface Layer in Sandy Soils



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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- | | |
|---|--|
| <input checked="" type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? Yes Basis:

Wetland Hydrology Present? Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Wetland

Comments: ALL CRITERIA ARE PRESENT

Lot Number: 2A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 2B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >15"
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam

Drainage Class: Poorly drained

Taxonomy (Subgroup): Typic Haplaquolls

Map Symbol: 152

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-10		N2/0				silty clay loam; fine granular structure
10-15		10YR2/1	2.5Y4/2	Common	Faint	silty clay loam; subangular blocky

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- | | |
|---|--|
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present?	Yes	Basis:
<hr/>		
Hydrophytic Vegetation Present?	No	Basis:
Wetland Hydrology Present?:	No	Basis:
Hydric Soils Present?	Yes	Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT.

Plot Number: 2B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 3A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
UNVEGETATED			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: >36"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Remarks:

Wetland Hydrology Present?: Yes Basis:

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium granular structure

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- | | |
|---|--|
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: THE SAMPLING POINT REPRESENTS A WATERS OF THE U.S.

Plot Number: 3A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 3B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >12"
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Remarks:

Wetland Hydrology Present?: No Basis:

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium granular structure

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT

Plot Number: 38



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 4A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
Eleocharis erythropoda	RED-ROOTED SPIKE RUSH	Herb	OBL
URTICA DIOICA	STINGING NETTLE	Herb	FAC+
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
Typha angustifolia	NARROW-LEAVED CATTAIL	Herb	OBL
Carex lacustris	COMMON LAKE SEDGE	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 5"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				saoric material; medium granular structure

Hydric Soil Indicators:

- ☒ Histosol ☐ Concretions



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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- | | |
|---|---|
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? Yes Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Wetland

Comments: ALL CRITERIA ARE PRESENT

Plot Number: 4A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

Plot Number: 4B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >12"
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT

Plot Number: 4B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 5A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
Sagittaria latifolia	COMMON ARROWHEAD	Herb	OBL
Alisma subcordatum	COMMON WATER PLANTAIN	Herb	OBL
Panicum dichotomiflorum	KNEE GRASS	Herb	FACW-
Typha angustifolia	NARROW-LEAVED CATTAIL	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 12"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- ☒ Histosol ☐ Concretions



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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- | | |
|---|--|
| <input type="checkbox"/> Histic Epipedon
<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime
<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Other (Explain in Remarks) |
|---|--|

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? Yes Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Wetland

Comments: THE AREA REPRESENTS A WETLAND ADJACENT TO A TRIBUTARY OF OTTER CREEK.

Plot Number: 5A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 5B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
- ☐ Saturated Soils Depth To Saturated Soil: >15"
- ☐ Saturated In Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-15		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on National Hydric Soils List
☐ Other (Explain in Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT

Sheet Number: 5B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 6A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
UNVEGETATED			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: >24"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

☐ Reducing Conditions

☒ Listed on National Hydric Soils List

☒ Gleyed Or Low Chroma Colors

☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: THE ARE REPRESENTS A WATERS OF THE U.S.

Plot Number: 6A



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin	Project Name: Spartan Drive Extension	Project Number: 02-914
State: IL County: Kane	Section: 21 Township: 41N	Range: 8E
Date: 6/18/02	Determined By: Kari Womack/Julie Gangloff	

Plot Number: 6B

Do Normal Circumstances exist on the site?	Yes	Comment:
Is the site significantly disturbed (Atypical Situation)?	No	Comment:
Is the area a potential Problem Area?	No	Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Inundated Depth of standing water: | <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches |
| <input type="checkbox"/> Saturated Soils Depth To Saturated Soil: >15" | <input type="checkbox"/> Water-Stained Leaves |
| <input type="checkbox"/> Saturated in Upper 12 Inches | <input type="checkbox"/> Local Soil Survey Data |
| <input type="checkbox"/> Water Marks | <input type="checkbox"/> FAC-Neutral Test |
| <input type="checkbox"/> Drift Lines | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Sediment Deposits | |
| <input type="checkbox"/> Drainage Patterns in Wetlands | |

Remarks:

Wetland Hydrology Present?: No Basis:

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-15		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present?: No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT

Plot Number: 6B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

Plot Number: 7A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
Sagittaria latifolia	COMMON ARROWHEAD	Herb	OBL
Eleocharis erythropoda	RED-ROOTED SPIKE RUSH	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 0-3"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Map Symbol: 103

Drainage Class: Very poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic medisaprists

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on Local Hydric Soils List
☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? Yes Basis:

Wetland Hydrology Present?: Yes Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Wetland

Comments: ALL CRITERIA ARE PRESENT

Plot Number: 7A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

Plot Number: 7B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
- ☐ Saturated Soils Depth To Saturated Soil: >15"
- ☐ Saturated In Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-15		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- ☒ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☒ Listed on Local Hydric Soils List



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL CRITERIA ARE NOT PRESENT

Plot Number: 7B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

Plot Number: 8A

Do Normal Circumstances exist on the site?	Yes	Comment:
Is the site significantly disturbed (Atypical Situation)?	No	Comment:
Is the area a potential Problem Area?	No	Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
UNVEGETATED			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 12-36"
- ☐ Saturated Soils Depth To Saturated Soil:
- ☐ Saturated In Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☒ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL **County:** Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 **Township:** 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes **Basis:**

Hydrophytic Vegetation Present? No **Basis:**

Wetland Hydrology Present?: Yes **Basis:**

Hydric Soils Present? Yes **Basis:**

Wetland Determination: Nonwetland

Comments: THE SAMPLING POINT REPRESENTS A WATERS OF THE U.S.

Plot Number: 8A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 6/18/02 Determined By: Kari Womack/Julie Gangloff

Plot Number: 8B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >15"
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Houghton muck

Drainage Class: Very poorly drained

Taxonomy (Subgroup): Typic medisaprists

Map Symbol: 103

Mapped Hydric Inclusion:

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		N2/0				sapric material; medium fine granular

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 6/18/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Kari Womack/Julie Gangloff

Project Number: 02-914
Range: 8E

- ☐ Reducing Conditions
☒ Gleyed Or Low Chroma Colors

- ☒ Listed on National Hydric Soils List
☐ Other (Explain In Remarks)

Remarks:

Hydric Soils Present? Yes Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? Yes Basis:

Wetland Determination: Nonwetland

Comments: ALL OF THE CRITERIA ARE NOT MET

Plot Number: 8B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 7/26/02 Determined By: Julie Gangloff/Darian Landolt

Plot Number: 9A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
URTICA DIOICA	STINGING NETTLE	Herb	FAC+

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: 5"
☒ Saturated In Upper 12 Inches
☒ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam

Map Symbol: 152

Drainage Class: Poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic Haplaquolls

☒ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-18		10YR2/1	2.5Y5/4	Common	Faint	silty clay loam; subangular blocky

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL **County:** Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 **Township:** 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|---|--|
| <input type="checkbox"/> Aquic Moisture Regime
<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Other (Explain In Remarks) |
|---|--|

Remarks:

Hydric Soils Present? Yes **Basis:**

Hydrophytic Vegetation Present? Yes **Basis:**

Wetland Hydrology Present? Yes **Basis:**

Hydric Soils Present? Yes **Basis:**

Wetland Determination: Wetland

Comments: ALL CRITERIA ARE MET

Plot Number: 9A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 7/26/02 Determined By: Julie Gangloff/Darian Landolt

Plot Number: 9B

Are Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
Solidago altissima	TALL GOLDENROD	Herb	FACU
ARCTIUM MINUS	COMMON BURDOCK	Herb	UPL
CIRSIIUM ARVENSE	FIELD THISTLE	Herb	UPL
PHALARIS ARUNDINACEA	REED CANARY GRASS	Herb	FACW+
Helianthus grosseserratus	SAWTOOTH SUNFLOWER	Herb	FACW-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 40 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >18"
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Drummer silty clay loam

Map Symbol: 152

Drainage Class: Poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic Haplaquolls

☐ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-18		10YR4/3				silty clay loam; subangular blocky

Hydric Soil Indicators:

☐ Histosol

☐ Concretions



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|--|---|
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? No Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? No Basis:

Wetland Determination: Nonwetland

Comments: NONE OF THE CRITERIA ARE MET

Plot Number: 9B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 7/26/02 Determined By: Julie Gangloff/Darian Landolt

Plot Number: 10A

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
Typha angustifolia	NARROW-LEAVED CATTAIL	Herb	OBL
Salix interior	SANDBAR WILLOW	Herb	OBL
Scirpus pungens	CHAIRMAKER'S RUSH	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? Yes Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☒ Inundated Depth of standing water: 4-36+"
☐ Saturated Soils Depth To Saturated Soil:
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: Yes Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☒ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Lorenzo silt loam

Map Symbol: 318

Drainage Class: well drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic argiudolls

☐ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-18		10YR2/1	2.5Y5/4	Common	Faint	silty clay loam; subangular blocky

Hydric Soil Indicators:

- ☐ Histosol
☐ Histic Epipedon
☐ Concretions
☐ High Organic Content in Surface Layer in Sandy Soils



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL **County:** Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 **Township:** 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|---|---|
| <input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime
<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Other (Explain In Remarks) |
|---|---|

Remarks:

Hydric Soils Present? Yes **Basis:**

Hydrophytic Vegetation Present? Yes **Basis:**

Wetland Hydrology Present?: Yes **Basis:**

Hydric Soils Present? Yes **Basis:**

Wetland Determination: Wetland

Comments: ALL CRITERIA ARE MET. THE WETLAND FRINGE SURROUNDS AN OPEN WATER DETENTION POND WHICH WAS INUNDATED WITH MORE THAN 12 INCHES OF WATER.

Plot Number: 10A



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

Plot Number: 10B

Under normal circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
DAUCUS CAROTA	QUEEN ANNE'S LACE	Herb	UPL
CIRSIIUM ARVENSE	FIELD THISTLE	Herb	UPL
POA PRATENSIS	KENTUCKY BLUE GRASS	Herb	FAC-
Elymus canadensis	CANADA WILD RYE	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >18"
☐ Saturated In Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☒ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Lorenzo silt loam

Map Symbol: 318B

Drainage Class: well drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Typic argiudolls

☐ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-18		10YR4/4				silt loam; subangular blocky

Hydric Soil Indicators:

☐ Histosol

☐ Concretions



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|--|---|
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? No Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? No Basis:

Wetland Determination: Nonwetland

Comments: NONE OF THE CRITERIA WERE MET

Plot Number: 10B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin	Project Name: Spartan Drive Extension	Project Number: 02-914
State: IL	Section: 21	Township: 41N
Date: 7/26/02	Determined By: Julie Gangloff/Darian Landolt	
County: Kane	Range: 8E	

Plot Number: 11B

Do Normal Circumstances exist on the site?	Yes	Comment:
Is the site significantly disturbed (Atypical Situation)?	No	Comment:
Is the area a potential Problem Area?	No	Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
Potentilla norvegica	NORWAY CINQUEFOIL	Herb	FAC
CIRSIIUM ARVENSE	FIELD THISTLE	Herb	UPL
MELILOTUS OFFICINALIS	YELLOW SWEET CLOVER	Herb	FACU
Ambrosia trifida	GIANT RAGWEED	Herb	FAC+
DAUCUS CAROTA	QUEEN ANNE'S LACE	Herb	UPL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 40 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
- ☐ Saturated Soils Depth To Saturated Soil: >18"
- ☐ Saturated In Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns In Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOIL

Series And Phase: Beecher silt loam

Map Symbol: 298

Drainage Class: Somewhat poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Udollic Ochraqualfs

☐ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-12		10YR4/3				silt loam; medium fine granular

Hydric Soil Indicators:

- | | |
|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
|-----------------------------------|--------------------------------------|



Christopher B. Burke Engineering, Ltd.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL County: Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 Township: 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|--|---|
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks:

Hydric Soils Present? No Basis:

Hydrophytic Vegetation Present? No Basis:

Wetland Hydrology Present? No Basis:

Hydric Soils Present? No Basis:

Wetland Determination: Nonwetland

Comments: NONE OF THE CRITERIA ARE MET

Plot Number: 11B



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin Project Name: Spartan Drive Extension Project Number: 02-914
State: IL County: Kane Section: 21 Township: 41N Range: 8E
Date: 7/26/02 Determined By: Julie Gangloff/Darian Landolt

Plot Number: 12B

Do Normal Circumstances exist on the site? Yes Comment:
Is the site significantly disturbed (Atypical Situation)? No Comment:
Is the area a potential Problem Area? No Comment:

VEGETATION

Scientific Name	Common Name	Stratum	Indicator Status
DAUCUS CAROTA	QUEEN ANNE'S LACE	Herb	UPL
MELILOTUS OFFICINALIS	YELLOW SWEET CLOVER	Herb	FACU
Ambrosia trifida	GIANT RAGWEED	Herb	FAC+
CIRSIIUM ARVENSE	FIELD THISTLE	Herb	UPL

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 25 % Other Indicators:

Remarks:

Hydrophytic Vegetation Present? No Basis:

HYDROLOGY

Wetland Hydrology Primary Indicators:

- ☐ Inundated Depth of standing water:
☐ Saturated Soils Depth To Saturated Soil: >18"
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Remarks:

Wetland Hydrology Present?: No Basis:

Wetland Hydrology Secondary Indicators (2 or more required):

- ☐ Oxidized Root Channels in Upper 12 Inches
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOIL

Series And Phase: Beecher silt loam

Map Symbol: 298

Drainage Class: Somewhat poorly drained

Mapped Hydric Inclusion:

Taxonomy (Subgroup): Udollic Ochraqualfs

☐ Field Observations Confirm Mapped Type

Depth	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Mottle Contrast	Texture, Concretions, Structure, Etc.
0-18		10YR4/3				silt loam; medium fine granular

Hydric Soil Indicators:

- ☐ Histosol ☐ Concretions



DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Applicant Name: City of Elgin
State: IL **County:** Kane
Date: 7/26/02

Project Name: Spartan Drive Extension
Section: 21 **Township:** 41N
Determined By: Julie Gangloff/Darian Landolt

Project Number: 02-914
Range: 8E

- | | |
|--|---|
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed Or Low Chroma Colors | <input type="checkbox"/> Other (Explain In Remarks) |

Remarks:

Hydric Soils Present? No **Basis:**

Hydrophytic Vegetation Present? No **Basis:**

Wetland Hydrology Present? No **Basis:**

Hydric Soils Present? No **Basis:**

Wetland Determination: Nonwetland

Comments: NONE OF THE CRITERIA ARE MET

Plot Number: 12B



TAB 3

**Additional Wetland Data
Collected March 20, 2010**

Prepared By: Wills Burke Kelsey Associates, Ltd.



Elgin
Community
College

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal



WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: ECC Parking Lot Expansion City/County: Elgin/Kane County Sampling Date: March 20, 2010
 Applicant/Owner: Elgin Community College State: IL Sampling Point: 10
 Investigator(s): Patrick Kelsey Section, Township, Range: S21, T41N, 8E
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave
 Slope (%): _____ Lat: 42.017294 N Long: 88.325460 W Datum: _____
 Soil Map Unit Name: Houghton Muck NWI or WWI classification: PEMCd

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No _____	
Remarks: Area is part of a large marsh that directly abuts an Unnamed Tributary to Otter Creek		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
1. <u>Acer negundo</u>	<u>5</u>	<u>n</u>	<u>FACW</u>															
2. <u>Acer saccharinum</u>	<u>5</u>	<u>n</u>	<u>FACW</u>															
3. <u>Populus deltoides</u>	<u>5</u>	<u>n</u>	<u>FAC</u>															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW species <u>65</u></td> <td>x 2 = <u>130</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>230</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>1.92</u>	Total % Cover of:	Multiply by:	OBL species <u>40</u>	x 1 = <u>40</u>	FACW species <u>65</u>	x 2 = <u>130</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>120</u> (A)	<u>230</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>40</u>	x 1 = <u>40</u>																	
FACW species <u>65</u>	x 2 = <u>130</u>																	
FAC species <u>5</u>	x 3 = <u>15</u>																	
FACU species <u>5</u>	x 4 = <u>20</u>																	
UPL species <u>5</u>	x 5 = <u>25</u>																	
Column Totals: <u>120</u> (A)	<u>230</u> (B)																	
Sapling/Shrub Stratum (Plot size: <u>10m</u>)																		
1. <u>Salix interior</u>	<u>5</u>	<u>n</u>	<u>OBL</u>															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
Herb Stratum (Plot size: <u>0.5m</u>)																		
1. <u>Arctium minus</u>	<u>5</u>	<u>n</u>	<u>UPL</u>															
2. <u>Solidago altissima</u>	<u>5</u>	<u>n</u>	<u>FACU</u>															
3. <u>Phalaris arundinacea</u>	<u>50</u>	<u>y</u>	<u>FACW</u>															
4. <u>Solidago gigantea</u>	<u>5</u>	<u>n</u>	<u>FACW</u>															
5. <u>Typha angustifolia</u>	<u>10</u>	<u>n</u>	<u>OBL</u>	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____														
6. <u>Typha latifolia</u>	<u>25</u>	<u>y</u>	<u>OBL</u>															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____														
Woody Vine Stratum (Plot size: _____)																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____	_____ = Total Cover														
_____ = Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
12	N2.5/1	100					muck	
18	N2.5/1	100					sic	
36	2.5Y6/1	65					sic	
	7.5YR5/6	35						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☒ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☒ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 12
 Water Table Present? Yes ☐ No ☐ Depth (inches): _____
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Unnamed Tributary to Otter Creek flows through this wetland complex.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: ECC Parking Lot Expansion City/County: Elgin/Kane County Sampling Date: March 20, 2010
 Applicant/Owner: Elgin Community College State: IL Sampling Point: 11
 Investigator(s): Patrick Kelsey Section, Township, Range: S21, T41N, 8E
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave
 Slope (%): _____ Lat: 42.017294 N Long: 88.325460 W Datum: _____
 Soil Map Unit Name: Houghton Muck NWI or WWI classification: PEMCd

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No _____	
Remarks: Wetland is adjacent to wetland 10.		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
1. <u>Acer negundo</u>	<u>10</u>	<u>y</u>	<u>FACW</u>															
2. <u>Acer saccharinum</u>	<u>5</u>	<u>n</u>	<u>FACW</u>															
3. <u>Populus deltoides</u>	<u>10</u>	<u>y</u>	<u>FAC</u>															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>95</u></td> <td>x 2 = <u>190</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>270</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.25</u>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>95</u>	x 2 = <u>190</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>120</u> (A)	<u>270</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>5</u>	x 1 = <u>5</u>																	
FACW species <u>95</u>	x 2 = <u>190</u>																	
FAC species <u>10</u>	x 3 = <u>30</u>																	
FACU species <u>5</u>	x 4 = <u>20</u>																	
UPL species <u>5</u>	x 5 = <u>25</u>																	
Column Totals: <u>120</u> (A)	<u>270</u> (B)																	
Sapling/Shrub Stratum (Plot size: <u>10m</u>)																		
1. <u>Salix interior</u>	<u>5</u>	<u>y</u>	<u>OBL</u>															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
Herb Stratum (Plot size: <u>0.5m</u>)																		
1. <u>Arctium minus</u>	<u>5</u>	<u>n</u>	<u>UPL</u>															
2. <u>Solidago altissima</u>	<u>5</u>	<u>n</u>	<u>FACU</u>															
3. <u>Phalaris arundinacea</u>	<u>75</u>	<u>y</u>	<u>FACW</u>															
4. <u>Solidago gigantea</u>	<u>5</u>	<u>n</u>	<u>FACW</u>															
5. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____														
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____	Woody Vine Stratum (Plot size: _____)														
1. _____	_____	_____	_____															
2. _____	_____	_____	_____	Remarks: (Include photo numbers here or on a separate sheet.)														
_____	_____	_____	_____															

SOIL

Sampling Point: 11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
6	N2.5/1	100					muck	
12	10YR2/1	100					sic	
36	2.5Y6/1	65					sic	
	7.5YR5/6	35						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☒ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 12
 Water Table Present? Yes ☐ No ☐ Depth (inches): _____
 Saturation Present? Yes ☐ No ☐ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: ECC Parking Lot Expansion City/County: Elgin/Kane County Sampling Date: March 20, 2010
 Applicant/Owner: Elgin Community College State: IL Sampling Point: 12
 Investigator(s): Patrick Kelsey Section, Township, Range: S21, T41N, 8E
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave
 Slope (%): _____ Lat: 42.017294 N Long: 88.325460 W Datum: _____
 Soil Map Unit Name: Houghton Muck NWI or WWI classification: PEMCd

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: Wetland is adjacent to wetland 10.		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1. <u>Acer negundo</u>	10	y	FACW	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>95</u> x 2 = <u>190</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>110</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>2.18</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____	10	= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Salix interior</u>	5	y	OBL	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____	5	= Total Cover		
Herb Stratum (Plot size: _____)				
1. <u>Arctium minus</u>	5	n	UPL	
2. <u>Solidago altissima</u>	5	n	FACU	
3. <u>Phalaris arundinacea</u>	80	y	FACW	
4. <u>Solidago gigantea</u>	5	n	FACW	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____	95	= Total Cover		
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____	_____	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: 12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
10	N2.5/1	100					muck	
16	10YR2/1	100					sic	
36	2.5Y6/1	65					sic	
	7.5YR5/6	35						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☒ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☒ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☒ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Aerial photograph from 2006 shows saturation in wetland.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: ECC Parking Lot Expansion City/County: Elgin/Kane County Sampling Date: March 20, 2010
 Applicant/Owner: Elgin Community College State: IL Sampling Point: 13
 Investigator(s): Patrick Kelsey Section, Township, Range: S21, T41N, 8E
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave
 Slope (%): _____ Lat: 42.017294 N Long: 88.325460 W Datum: _____
 Soil Map Unit Name: Houghton Muck NWI or WWI classification: PEMCd

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: Wetland is adjacent to wetland 10.		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Acer negundo</u>	<u>10</u>	<u>y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>95</u> x 2 = <u>190</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>210</u> (B) Prevalence Index = B/A = <u>2.10</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>10</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>0.5m</u>)				
1. _____	_____	_____	_____	
2. <u>Solidago altissima</u>	<u>5</u>	<u>n</u>	<u>FACU</u>	
3. <u>Phalaris arundinacea</u>	<u>85</u>	<u>y</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>90</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: 13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
18	N2.5/1	100					muck	
24	N2.5/1	100					sic	
36	2.5Y6/1	75					sic	
	7.5YR5/6	25						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☒ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
☐ Iron-Manganese Masses (F12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☒ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Gauge or Well Data (D9)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☒ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)



Wetland Hydrology Present? Yes ☒ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Aerial photograph from 2006 shows saturation in wetland.



CLIENT ELGIN COMMUNITY COLLEGE 1700 SPARTAN DRIVE ELGIN, ILLINOIS (847) 697-1000	TITLE PARKING LOT EXPANSION	DWN.	LJL	CHKD.	KEM
		JOB# 10-0004			
 WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	AERIAL PHOTOGRAPH				DATE 03-18-2010
					EXHIBIT 6

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): March 22, 2010

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, ECC Parking Lot Expansion - Wetlands 10-13

C. PROJECT LOCATION AND BACKGROUND INFORMATION: Elgin Community College

State: Illinois

County/parish/borough: **Kane**

City: Elgin

Center coordinates of site (lat/long in degree decimal format): Lat. 42.017294°N, Long. 88.325460° W.

Universal Transverse Mercator: NAD 83

Name of nearest waterbody: Otter Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Fox River**

Name of watershed or Hydrologic Unit Code (HUC): **Upper Fox (07120006)**

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: Defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: 76.2 acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: **Waters 5 was determined in a previous JD to be isolated. Waters 5 is a detention basin created to treat stormwater runoff from impervious surfaces of the ECC campus.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: **Pick List**.

Summarize rationale supporting determination: As defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”:

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: **Pick List**

Drainage area: **acres**

Average annual rainfall: inches

Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵:

Tributary stream order, if known:

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

<input type="checkbox"/> Silts	<input type="checkbox"/> Sands	<input type="checkbox"/> Concrete
<input type="checkbox"/> Cobbles	<input type="checkbox"/> Gravel	<input type="checkbox"/> Muck
<input type="checkbox"/> Bedrock	<input type="checkbox"/> Vegetation. Type/% cover:	
<input type="checkbox"/> Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Pick List**. Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

<input type="checkbox"/> Bed and banks	
<input type="checkbox"/> OHWM ⁶ (check all indicators that apply):	
<input type="checkbox"/> clear, natural line impressed on the bank	<input type="checkbox"/> the presence of litter and debris
<input type="checkbox"/> changes in the character of soil	<input type="checkbox"/> destruction of terrestrial vegetation
<input type="checkbox"/> shelving	<input type="checkbox"/> the presence of wrack line
<input type="checkbox"/> vegetation matted down, bent, or absent	<input type="checkbox"/> sediment sorting
<input type="checkbox"/> leaf litter disturbed or washed away	<input type="checkbox"/> scour
<input type="checkbox"/> sediment deposition	<input type="checkbox"/> multiple observed or predicted flow events
<input type="checkbox"/> water staining	<input type="checkbox"/> abrupt change in plant community
<input type="checkbox"/> other (list):	
<input type="checkbox"/> Discontinuous OHWM. ⁷ Explain: .	

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

<input checked="" type="checkbox"/> High Tide Line indicated by:	<input checked="" type="checkbox"/> Mean High Water Mark indicated by:
<input type="checkbox"/> oil or scum line along shore objects	<input type="checkbox"/> survey to available datum;
<input type="checkbox"/> fine shell or debris deposits (foreshore)	<input type="checkbox"/> physical markings;
<input type="checkbox"/> physical markings/characteristics	<input type="checkbox"/> vegetation lines/changes in vegetation types.
<input type="checkbox"/> tidal gauges	
<input type="checkbox"/> other (list):	

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: 76.2 acres

Wetland type. Explain: Wet meadow/marsh that drains to Unnamed Tributary Otter Creek.

Wetland quality. Explain: Low, Native FQI was 0.7 to 5.7 for the wetlands.

Project wetlands cross or serve as state boundaries. Explain: No.

(b) General Flow Relationship with Non-TNW:

Flow is: **Ephemeral flow**. Explain: Wetland 10 surrounds and drains into unnamed tributary, the remaining wetlands are adjacent to Wetland 10.

Surface flow is: **Overland sheetflow**

Characteristics: .

Subsurface flow: **Unknown**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☒ Directly abutting

☒ Not directly abutting

☐ Discrete wetland hydrologic connection. Explain: .

☒ Ecological connection. Explain: Wetlands may be connected by subsurface flow. All contain similar vegetation characteristics.

☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **2-5** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **2 - 5-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: No surface water observed. Wetlands are primarily a reed canary grass field.

Identify specific pollutants, if known: .

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

☒ Riparian buffer. Characteristics (type, average width): In consistent riparian buffer is present. Golf course remnants are along the southern edge. A parking lot is within 250 feet of boundary.

☒ Vegetation type/percent cover. Explain: 100% coverage, Reed Canary Grass is the dominant species.

☐ Habitat for:

☐ Federally Listed species. Explain findings: .

☐ Fish/spawn areas. Explain findings: .

☐ Other environmentally-sensitive species. Explain findings: .

☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **4**

Approximately (76.2) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Name/ID</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Name/ID</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
Wetland 10	Y	73.84	Wetland 11	N	0.34
Wetland 12	N	0.47	Wetland 13	N	0.04

Summarize overall biological, chemical and physical functions being performed: Wetlands 11-13 are similar to Wetland 10 and may have been connected at one time. Current conditions indicate similar functions of water filtration prior to discharging into Unnamed Tributary to Otter Creek. All wetlands are of low vegetative quality. Mitigation was performed in the southwestern portion of Wetland 10 for the Spartan Drive extension to the south. Wetland scrapes were performed to diversify the large marsh.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The topography of the adjacent wetlands provides surface flow connection to Wetland 10, which directly abuts an RPW. This surface water connection can carry pollutants to the RPW and TNW. Floodwaters have been observed flowing from the adjacent wetlands into the RPW.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**
☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: The Unnamed Tributary to Otter Creek has been observed to flow year-round for the last 5 years. Several ponds and wet-bottom detention basins drain or discharge to the RPW.

- ☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- ☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☒ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Wetland 10 surrounds both sides of the RPW.**
☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: **73.84** acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **0.85** acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .
- ☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- ☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - ☐ Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
- ☐ Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: .
- ☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):

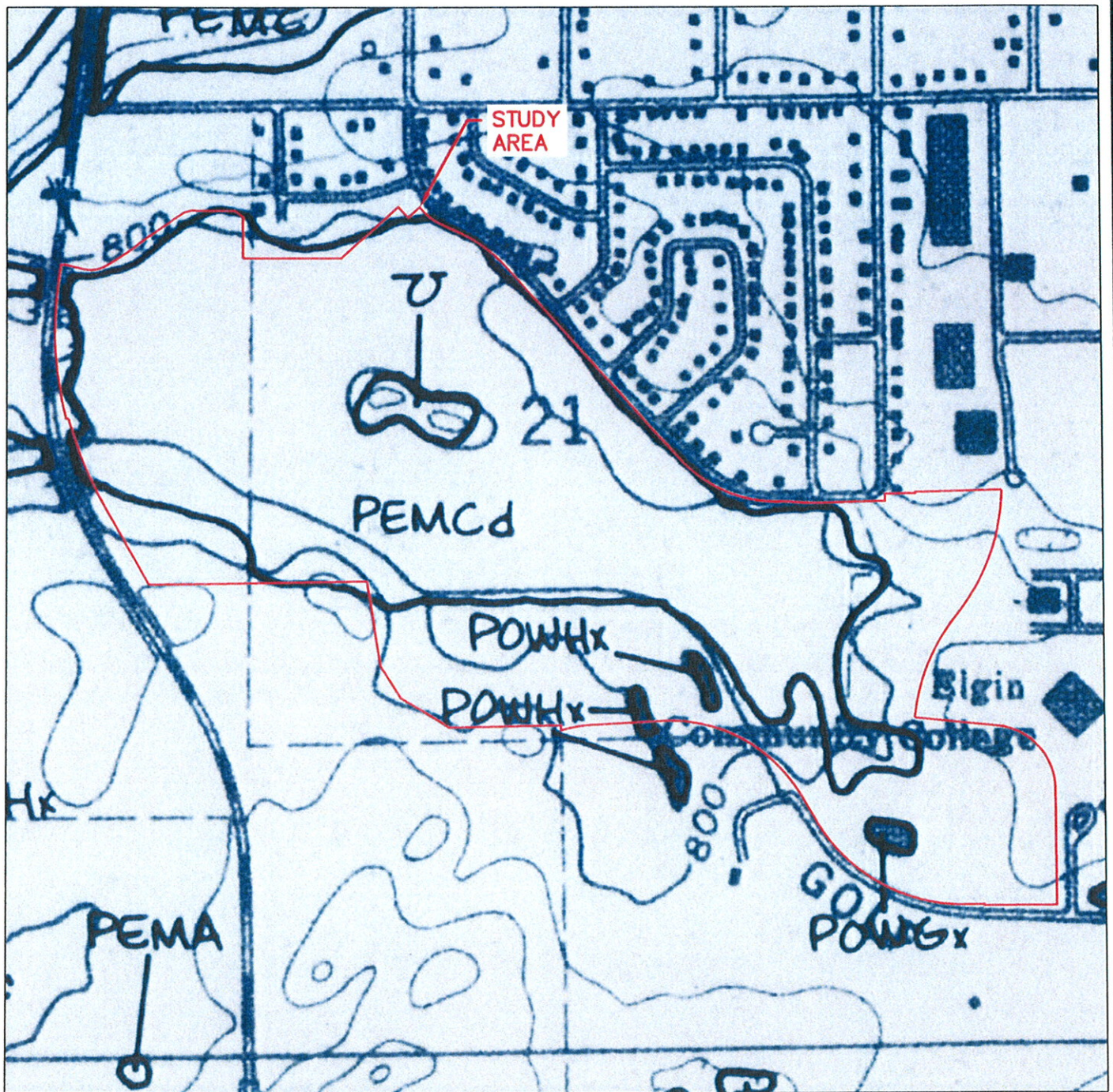
- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☐ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
- ☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☐ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps: .
- ☐ Corps navigable waters’ study: .
- ☐ U.S. Geological Survey Hydrologic Atlas: .
 - ☐ USGS NHD data.
 - ☐ USGS 8 and 12 digit HUC maps.
- ☐ U.S. Geological Survey map(s). Cite scale & quad name: .
- ☐ USDA Natural Resources Conservation Service Soil Survey. Citation: **Pick List**.
- ☐ National wetlands inventory map(s). Cite name: .
- ☐ State/Local wetland inventory map(s): **Pick List**, **Pick List**, .
- ☐ FEMA/FIRM maps: .
- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☐ Aerial (Name & Date): .
or ☐ Other (Name & Date): .
- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, (S.D.Ill. Jan. 20, 1979)
- ☐ Applicable/supporting scientific literature: .
- ☐ Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: .





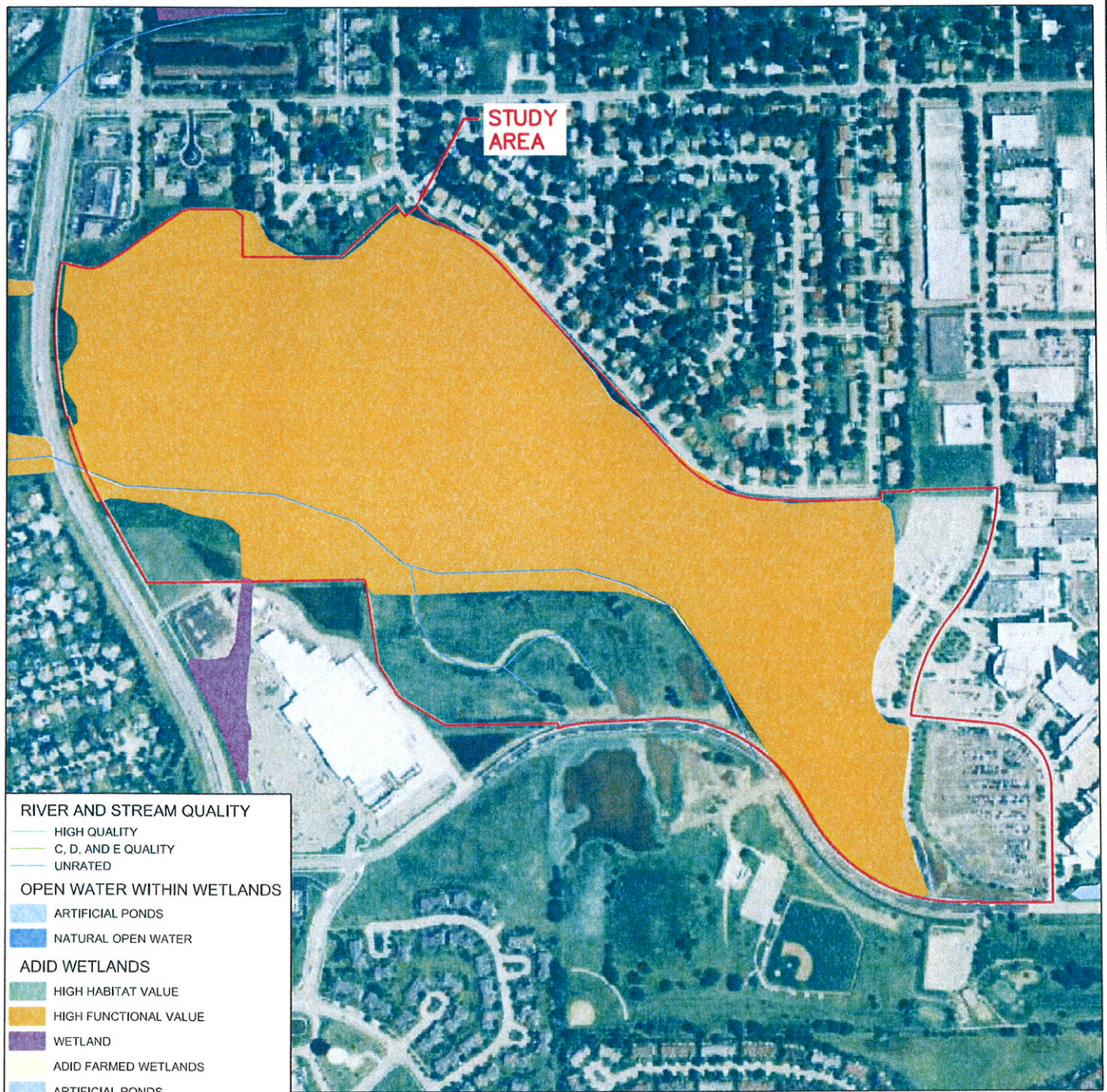
SOURCE: U.S. FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY MAP, ELGIN QUADRANGLE, 1980

SCALE: 1" = 600'

LEGEND

PEMCD: PALUSTRINE, EMERGENT, SEASONAL, PARTIALLY DRAINED/DITCHED
 POWGx: PALUSTRINE, OPEN WATER, INTERMITTENTLY EXPOSED, EXCAVATED
 POWHx: PALUSTRINE, OPEN WATER, PERMANENT, EXCAVATED

CLIENT ELGIN COMMUNITY COLLEGE 1700 SPARTAN DRIVE ELGIN, ILLINOIS (847) 697-1000	TITLE PARKING LOT EXPANSION	DWN.	LJL	CHKD.	KEM
		JOB# 10-0004			 N
 WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	NATIONAL WETLANDS INVENTORY	DATE 03-18-2010			
		EXHIBIT 2A			



RIVER AND STREAM QUALITY

- HIGH QUALITY
- C, D, AND E QUALITY
- UNRATED

OPEN WATER WITHIN WETLANDS

- ARTIFICIAL PONDS
- NATURAL OPEN WATER

ADID WETLANDS

- HIGH HABITAT VALUE
- HIGH FUNCTIONAL VALUE
- WETLAND
- ADID FARMED WETLANDS
- ARTIFICIAL PONDS
- NATURAL OPEN WATER AND FOX RIVER
- ISLAND IN THE FOX RIVER
- MITIGATION BANK
- FENS
- NRCS FARMED WETLANDS

SOURCE: KANE CO. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT,
ADVANCED IDENTIFICATION (ADID) STUDY, AUGUST 2004

SCALE: 1" = 600'

This map was produced under the Advanced Identification (ADID) Program of the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers. Descriptions of the wetland and stream designation criteria are available in the Kane County ADID Study Methodology.

The wetland boundaries shown are not jurisdictional delineations.



U.S. Army Corps
of Engineers



CLIENT

ELGIN COMMUNITY COLLEGE
1700 SPARTAN DRIVE
ELGIN, ILLINOIS
(847) 697-1000

TITLE

**PARKING LOT
EXPANSION**

DWN.

LJL

CHKD.

KEM

JOB#

10-0004

N



WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

**ADVANCED
IDENTIFICATION
(ADID) STUDY**

DATE
03-18-2010

EXHIBIT 2B



SOURCE: USDA SSURGO SOIL DATA, DECEMBER 2004

SCALE: 1" = 600'

LEGEND

103A - Houghton Muck (HYDRIC)
 149A - Brenton Silt Loam
 152A - Drummer Silty Clay Loam
 318B - Lorenzo Loam

318C2 - Lorenzo Loam
 323D2 - Casco Loam
 325B - Dresden Silt Loam
 792A - Bowes Silt Loam

969E2 - Casco-Rodman Complex
 W - Water

CLIENT ELGIN COMMUNITY COLLEGE 1700 SPARTAN DRIVE ELGIN, ILLINOIS (847) 697-1000	TITLE PARKING LOT EXPANSION	DWN.	LJL	CHKD.	KEM
		JOB# 10-0004			
WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SOIL SURVEY	DATE 03-18-2010			
		EXHIBIT 3			

TAB 4

Wetland Impacts Exhibit

Prepared By: Wills Burke Kelsey Associates, Ltd.

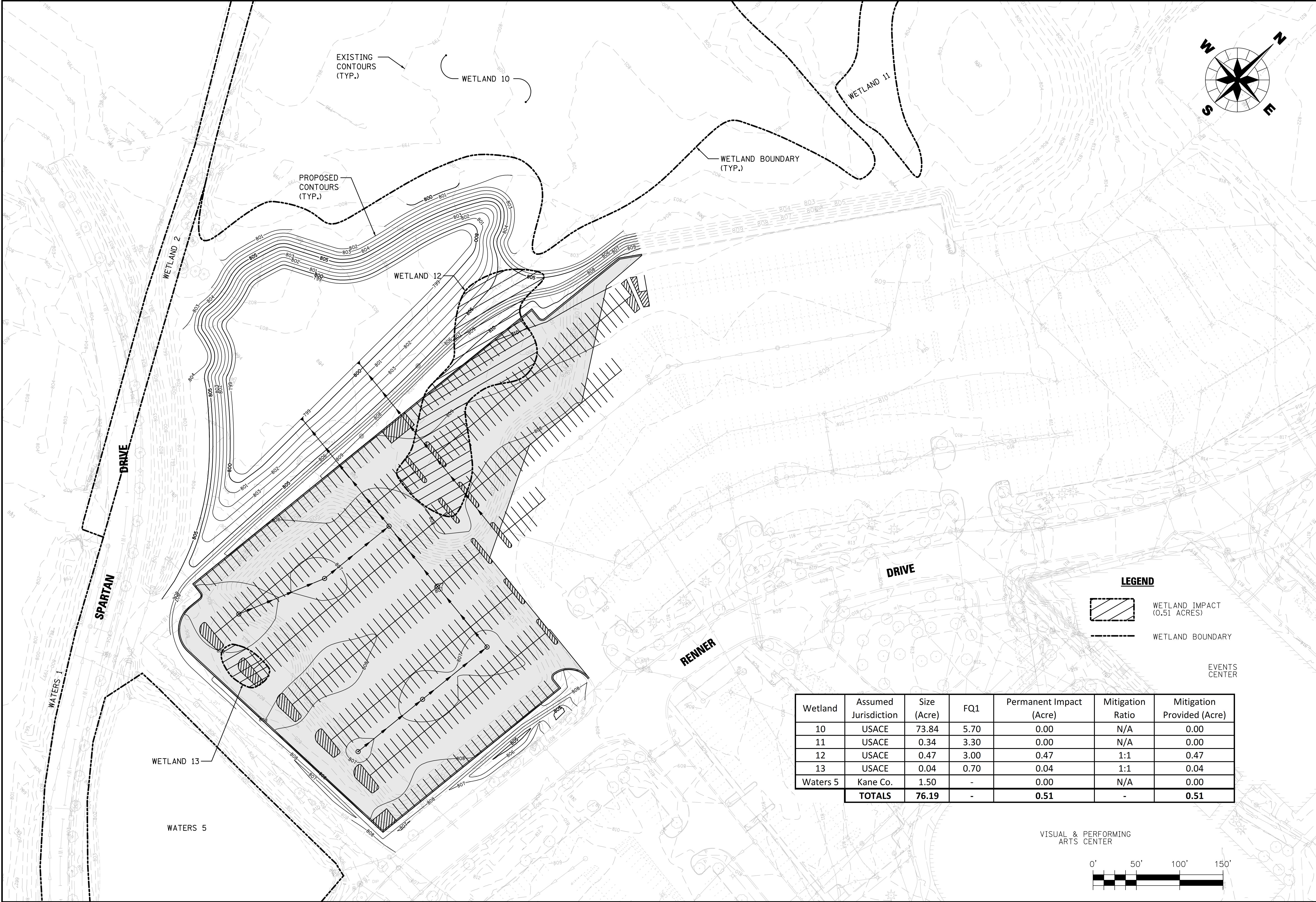


Elgin
Community
College

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal





Wetland	Assumed Jurisdiction	Size (Acre)	FQ1	Permanent Impact (Acre)	Mitigation Ratio	Mitigation Provided (Acre)
10	USACE	73.84	5.70	0.00	N/A	0.00
11	USACE	0.34	3.30	0.00	N/A	0.00
12	USACE	0.47	3.00	0.47	1:1	0.47
13	USACE	0.04	0.70	0.04	1:1	0.04
Waters 5	Kane Co.	1.50	-	0.00	N/A	0.00
TOTALS		76.19	-	0.51	-	0.51

LEGEND

WETLAND IMPACT (0.51 ACRES)

WETLAND BOUNDARY

EVENTS CENTER

VISUAL & PERFORMING ARTS CENTER



PROJECT NO. 10-0004

DATE : 7-29-2010

SHEET 1 OF 1

DRAWING NO.

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

CLIENT :

ELGIN COMMUNITY COLLEGE
1700 SPARTAN DRIVE
ELGIN, ILLINOIS
847-697-1000

TITLE :

WEST PARKING LOT
ADDITION - PHASE II
WETLAND IMPACT
EXHIBIT

NO. DATE

NATURE OF REVISION

WETLAND EXHIBIT.DGN

DSGN.

PVH

DWN.

NDP

CHKD.

PVH

SCALE : 1"=50'

TAB 5

Agency Consultations



**Elgin
Community
College**

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal





United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chicago Ecological Services Field Office
1250 South Grove Avenue, Suite 103
Barrington, Illinois 60010
Phone: (847) 381-2253 Fax: (847) 381-2285

RECEIVED

SEP 22 2005

IN REPLY REFER TO:
FWS/AES-CIFO/(3-0501)/5-2153

Christopher B. Burke Engineering, West, Ltd.

September 21, 2005

Mr. Darian Landolt
Christopher B. Burke Engineering, Ltd.
116 West Main Street, Suite 201
St. Charles, Illinois 60010

Dear Mr. Landolt

This responds to your letter dated August 24, 2005 requesting information on endangered or threatened species on or near the proposed improvements including constructing a new road segment and associated infrastructure on an approximately 100-acre site (CBBEWL Project No. 02-914, USACOE # 200300376), located at T41N, R8E, Section 21 in or near the City of Elgin, Kane County, Illinois as depicted on the map you enclosed.

Please note, according to the Biological Stream Characterization (BSC) which is assessment of Illinois Stream quality, Otter Creek is classified as a Class "B" stream. Class "B" waters may substantially influence aquatic ecosystems, functioning as buffers for "A" streams, nursery areas of refugia for aquatic communities. As with "A" streams these areas are biologically diverse and are critical in recovery of degraded systems. We caution you to avoid impacts to Otter Creek.

Please note that the proposed project site may encompass portions of Kane County Advanced Identification (ADID) site # 1403. ADID studies are conducted under the auspices of the U.S. Environmental Protection Agency to identify in advance of specific projects, those wetlands that are of the highest function and value. The results of ADID studies provide landowners and planners with information about the most important aquatic resources in a given area so that advance planning can take them into account.

ADID site # 1403 is determined to be a high functional wetland site. High functional wetlands are considered to provide "exceptionally important benefits or functions worthy of extraordinary protection and management considerations." We caution you to avoid impacts to this ADID site.

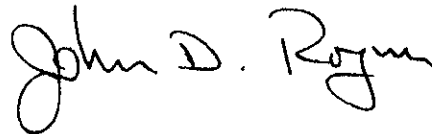
Based on the information provided in your submittal and a review of our records, we do not believe that any federally endangered or threatened species occur in the vicinity of the site. Based on the information provided, it does not appear that the project is likely to adversely affect any federally threatened or endangered species or adversely modify critical habitat of such

species. This precludes the need for consultation on this project in accordance with section 7 of the Endangered Species Act of 1973, as amended. Should project modifications or new information indicate that endangered or threatened species may be affected, then consultation with the Service should be initiated by the U.S. Army Corps of Engineers.

This letter only addresses federally listed species; the Illinois Department of Natural Resources should be contacted for information on State-listed species. Any impacts to wetlands or waters of the United States may require a permit from the U.S. Army Corps of Engineers. This letter does not preclude separate evaluation and comment the U.S. Fish and Wildlife Service on wetland impacts proposed for section 404, Clean Water Act authorization.

If you have any questions, please contact Ms. Chivia Horton at 847/381-2253 ext. 216, or Ms. Karla Kramer at 847/381-2253 ext. 230.

Sincerely,

A handwritten signature in black ink that reads "John D. Rogner". The signature is written in a cursive, flowing style.

John D. Rogner
Field Supervisor

cc: ACOE, Jaimee Hammit (Applicant: Elgin, City of)



MEMORANDUM

DATE: July 27, 2010

TO: Paul Dawson, ECC

CC: Kristine Meyer, PE, WBK

FROM: Patrick VerHalen, CPESC, WBK

SUBJECT: Section 7 Threatened and Endangered Species Consultation for the Elgin Community College Parking Lot Expansion in Elgin, Illinois (WBK Project No. 10-0004)

On November 16, 2009 new procedures were issued by the US Army Corps of Engineers (USACE) and the US Fish and Wildlife Service (USFWS) for completing Section 7 Consultations for Federally-listed Threatened and Endangered Species. The initial process is no longer completed by the USFWS, but is now up to the consultant/applicant for projects requiring review.

There are two species of Federally-listed threatened or endangered species in Kane County. Each species and the known habitat are listed below:

Common Name	Species Name	Habitat Description
- Sheepnose Mussel	<i>Plethobasus cyphus</i>	Medium to large rivers with sand and/or gravel bottoms
- Eastern Prairie Fringed Orchid	<i>Platanthaera leucophaea</i>	Moderate to high quality wetlands, sedge meadows, marshes, and mesic to wet prairies

Based on the conditions of the site during the wetlands delineation field work, and subsequent visits, the project area is not likely to support the above listed species. There are no medium to large rivers present or within the affected area. The wetlands in and adjacent to the project area have low native floristic quality (0.7 – 5.7). The species normally observed with the Eastern Prairie Fringed Orchid were not found to inhabit the wetlands in the project area. It is determined that the project will have **no effect** on Federally-listed threatened or endangered species.

County	Common Name	Scientific Name	Status
Hancock	Indiana bat	<i>Myotis sodalis</i>	Endangered
Hancock	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Hancock	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Hancock	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Hancock	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Hardin	Gray bat	<i>Myotis grisescens</i>	Endangered
Hardin	Indiana bat	<i>Myotis sodalis</i>	Endangered
Henderson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Henderson	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Henderson	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Henderson	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Henderson	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Henry	Indiana bat	<i>Myotis sodalis</i>	Endangered
Henry	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Iroquois	Indiana bat	<i>Myotis sodalis</i>	Endangered
Iroquois	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Jackson	Gray bat	<i>Myotis grisescens</i>	Endangered
Jackson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Jackson	Least tern	<i>Sterna antillarum</i>	Endangered
Jackson	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Jasper	Indiana bat	<i>Myotis sodalis</i>	Endangered
Jasper	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Jasper	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Jefferson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Jefferson	Piping plover May be present in Jefferson County during migration.	<i>Charadrius melodus</i>	Endangered
Jersey	Indiana bat	<i>Myotis sodalis</i>	Endangered
Jersey	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Jersey	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Jo Daviess	Indiana bat	<i>Myotis sodalis</i>	Endangered
Jo Daviess	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Jo Daviess	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Jo Daviess	Iowa Pleistocene snail	<i>Discus macclintoki</i>	Endangered
Jo Daviess	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Jo Daviess	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Johnson	Gray bat	<i>Myotis grisescens</i>	Endangered
Johnson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Kane	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Kane	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened

County	Common Name	Scientific Name	Status
Kankakee	Indiana bat	<i>Myotis sodalis</i>	Endangered
Kankakee	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Kankakee	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Kendall	Indiana bat	<i>Myotis sodalis</i>	Endangered
Kendall	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Knox	Indiana bat	<i>Myotis sodalis</i>	Endangered
Knox	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Knox	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Lake	Piping plover	<i>Charadrius melodus</i>	Endangered
Lake	Piping plover	<i>Charadrius melodus</i>	Critical Habitat
Lake	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Lake	Karner blue butterfly	<i>Lycaeides melissa samuelis</i>	Endangered
Lake	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Lake	Pitcher's thistle	<i>Cirsium pitcheri</i>	Threatened
La Salle	Indiana bat	<i>Myotis sodalis</i>	Endangered
La Salle	Indiana bat	<i>Myotis sodalis</i>	Critical Habitat Designated - Blackball Mine
La Salle	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
La Salle	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
La Salle	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
La Salle	Leafy-prairie clover	<i>Dalea foliosa</i>	Endangered
Lawrence	Indiana bat	<i>Myotis sodalis</i>	Endangered
Lawrence	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
Lawrence	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Lawrence	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Lawrence	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Lee	Indiana bat	<i>Myotis sodalis</i>	Endangered
Lee	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Lee	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Livingsston	Indiana bat	<i>Myotis sodalis</i>	Endangered
Livingsston	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Logan	Indiana bat	<i>Myotis sodalis</i>	Endangered
Logan	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Macon	Indiana bat	<i>Myotis sodalis</i>	Endangered
Macon	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Macoupin	Indiana bat	<i>Myotis sodalis</i>	Endangered
Macoupin	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Madison	Indiana bat	<i>Myotis sodalis</i>	Endangered
Madison	Least tern	<i>Sterna antillarum</i>	Endangered
Madison	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Madison	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Madison	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Madison	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened

County	Common Name	Scientific Name	Status

County	Common Name	Scientific Name	Status
Marion	Indiana bat	<i>Myotis sodalis</i>	Endangered
Marion	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Marshall	Indiana bat	<i>Myotis sodalis</i>	Endangered
Marshall	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Marshall	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Mason	Indiana bat	<i>Myotis sodalis</i>	Endangered
Mason	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Mason	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Mason	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Massac	Indiana bat	<i>Myotis sodalis</i>	Endangered
Massac	Least tern	<i>Sterna antillarum</i>	Endangered
Massac	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
	Orange-footed pimpleback pearlymussel	<i>Plethobasus cooperianus</i>	Endangered
Massac	Pink mucket pearlymussel	<i>Lampsilis orbiculata</i>	Endangered
Massac	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Massac	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Massac	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
McDonough	Indiana bat	<i>Myotis sodalis</i>	Endangered
McDonough	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
McHenry	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
McHenry	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
McLean	Indiana bat	<i>Myotis sodalis</i>	Endangered
McLean	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Menard	Indiana bat	<i>Myotis sodalis</i>	Endangered
Menard	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Menard	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Mercer	Indiana bat	<i>Myotis sodalis</i>	Endangered
Mercer	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Mercer	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Mercer	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Mercer	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Monroe	Gray bat	<i>Myotis grisescens</i>	Endangered
Monroe	Indiana bat	<i>Myotis sodalis</i>	Endangered
Monroe	Least tern	<i>Sterna antillarum</i>	Endangered
Monroe	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Monroe	Illinois cave amphipod	<i>Gammarus acherondytes</i>	Endangered
Montgomery	Indiana bat	<i>Myotis sodalis</i>	Endangered
Montgomery	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened

County	Common Name	Scientific Name	Status
Morgan	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Morgan	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Morgan	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Moultrie	Indiana bat	<i>Myotis sodalis</i>	Endangered
Moultrie	Piping plover May be present in Moultrie County during migration.	<i>Chardrius melodus</i>	Endangered
Moultrie	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Ogle	Indiana bat	<i>Myotis sodalis</i>	Endangered
Ogle	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Ogle	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Peoria	Indiana bat	<i>Myotis sodalis</i>	Endangered
Peoria	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Peoria	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Perry	Indiana bat	<i>Myotis sodalis</i>	Endangered
Piatt	Indiana bat	<i>Myotis sodalis</i>	Endangered
Piatt	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Piatt	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Pike	Gray bat	<i>Myotis grisescens</i>	Endangered
Pike	Indiana bat	<i>Myotis sodalis</i>	Endangered
Pike	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Pike	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Pike	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Pike	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Pike	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Pope	Gray bat	<i>Myotis grisescens</i>	Endangered
Pope	Indiana bat	<i>Myotis sodalis</i>	Endangered
Pope	Least tern	<i>Sterna antillarum</i>	Endangered
Pope	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
Pulaski	gray bat	<i>Myotis grisescens</i>	Endangered
Pulaski	Indiana bat	<i>Myotis sodalis</i>	Endangered
Pulaski	Orange-footed pimpleback pearlymussel	<i>Plethobasus cooperianus</i>	Endangered
Pulaski	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Pulaski	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Putnam	Indiana bat	<i>Myotis sodalis</i>	Endangered
Putnam	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Putnam	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Randolph	Indiana bat	<i>Myotis sodalis</i>	Endangered
Randolph	Least tern	<i>Sterna antillarum</i>	Endangered
Randolph	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Randolph	Small whorled pogonia	<i>Isotria medeoloides</i>	Threatened

County	Common Name	Scientific Name	Status
Richland	Indiana bat	<i>Myotis sodalis</i>	Endangered
Richland	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Rock Island	Indiana bat	<i>Myotis sodalis</i>	Endangered
Rock Island	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Rock Island	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Rock Island	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Rock Island	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
St. Clair	Indiana bat	<i>Myotis sodalis</i>	Endangered
St. Clair	Least tern	<i>Sterna antillarum</i>	Endangered
St. Clair	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
St. Clair	Illinois cave amphipod	<i>Gammarus acherondytes</i>	Endangered
St. Clair	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
St. Clair	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Saline	Indiana bat	<i>Myotis sodalis</i>	Endangered
Saline	Mead's milkweed	<i>Asclepias meadii</i>	Threatened
Sangamon	Indiana bat	<i>Myotis sodalis</i>	Endangered
Sangamon	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Sangamon	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Schuyler	Indiana bat	<i>Myotis sodalis</i>	Endangered
Schuyler	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Schuyler	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Schuyler	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Scott	Indiana bat	<i>Myotis sodalis</i>	Endangered
Scott	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Scott	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Scott	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Shelby	Indiana bat	<i>Myotis sodalis</i>	Endangered
Shelby	Piping plover May be present in Shelby County during migration.	<i>Charadrius melodus</i>	Endangered
Shelby	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Stark	Indiana bat	<i>Myotis sodalis</i>	Endangered
Stark	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Stephenson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Stephenson	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Tazewell	Indiana bat	<i>Myotis sodalis</i>	Endangered
Tazewell	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Tazewell	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Tazewell	Lakeside daisy	<i>Hymenoxys herbacea</i>	Threatened

County	Common Name	Scientific Name	Status
Union	Indiana bat	<i>Myotis sodalis</i>	Endangered
Union	Least tern	<i>Sterna antillarum</i>	Endangered
Union	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Vermilion	Indiana bat	<i>Myotis sodalis</i>	Endangered
Vermilion	Clubshell mussel	<i>Pleurobema clava</i>	Endangered
Vermilion	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Vermilion	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Wabash	Indiana bat	<i>Myotis sodalis</i>	Endangered
Wabash	Least tern	<i>Sterna antillarum</i>	Endangered
Wabash	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
Wabash	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Wabash	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Wabash	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Wabash	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Warren	Indiana bat	<i>Myotis sodalis</i>	Endangered
Warren	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Washington	Indiana bat	<i>Myotis sodalis</i>	Endangered
Washington	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Wayne	Indiana bat	<i>Myotis sodalis</i>	Endangered
White	Indiana bat	<i>Myotis sodalis</i>	Endangered
White	Fanshell mussel	<i>Cyprogenia stegaria</i>	Endangered
White	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
White	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
White	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
White	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Whiteside	Indiana bat	<i>Myotis sodalis</i>	Endangered
Whiteside	Higgins eye pearl mussel	<i>Lampsilis higginsii</i>	Endangered
Whiteside	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Whiteside	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Will	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Endangered
Will	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Critical Habitat
Will	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Will	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Will	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Will	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Will	Lakeside daisy	<i>Hymenoxys herbacea</i>	Threatened
Will	Leafy-prairie clover	<i>Dalea foliosa</i>	Endangered
Will	Mead's milkweed	<i>Asclepias meadii</i>	Threatened
Williamson	Indiana bat	<i>Myotis sodalis</i>	Endangered
Winnebago	Indiana bat	<i>Myotis sodalis</i>	Endangered
Winnebago	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Winnebago	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Woodford	Indiana bat	<i>Myotis sodalis</i>	Endangered
Woodford	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened

County	Common Name	Scientific Name	Status
Woodford	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened

Illinois List of Federally Endangered, Threatened, Proposed, and Candidate Species - by County

If you have questions about this list, please contact our Illinois Field Office at:
U.S. Fish and Wildlife Service, 1511 47th Avenue, Moline, Illinois 61265
Phone: (309) 757-5800

List Revised July 2010

*Go to end of the document for Species' Habitat Descriptions

County	Common Name	Scientific Name	Status
Adam	Indiana bat	<i>Myotis sodalis</i>	Endangered
Adam	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Adam	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Adam	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Adam	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Alexander	Gray bat	<i>Myotis grisescens</i>	Endangered
Alexander	Indiana bat	<i>Myotis sodalis</i>	Endangered
Alexander	Least tern	<i>Sterna antillarum</i>	Endangered
Alexander	Pallid sturgeon	<i>Scaphirhynchus albus</i>	Endangered
Alexander	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Bond	Indiana bat	<i>Myotis sodalis</i>	Endangered
	Piping plover		
	May be present in Bond County		
Bond	during migration.	<i>Charadrius melodus</i>	Endangered
Bond	Piping plover	<i>Sistrurus c. catenatus</i>	Candidate
Bond	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Boone	Indiana bat	<i>Myotis sodalis</i>	Endangered
Boone	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Brown	Indiana bat	<i>Myotis sodalis</i>	Endangered
Brown	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Brown	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Bureau	Indiana bat	<i>Myotis sodalis</i>	Endangered
Bureau	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Bureau	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Calhoun	Indiana bat	<i>Myotis sodalis</i>	Endangered
Calhoun	Spectaclecase mussel	<i>Cumberlandia monodonta</i>	Candidate
Calhoun	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Calhoun	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Carroll	Indiana bat	<i>Myotis sodalis</i>	Endangered
Carroll	Higgins eye pearlymussel	<i>Lampsilis higginsii</i>	Endangered
Carroll	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Carroll	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Cass	Indiana bat	<i>Myotis sodalis</i>	Endangered
Cass	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Cass	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Cass	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened

County	Common Name	Scientific Name	Status
Champaign	Indiana bat	<i>Myotis sodalis</i>	Endangered
Champaign	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Champaign	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Christian	Indiana bat	<i>Myotis sodalis</i>	Endangered
Christian	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Clark	Indiana bat	<i>Myotis sodalis</i>	Endangered
Clark	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Clark	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Clark	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Clay	Indiana bat	<i>Myotis sodalis</i>	Endangered
Clay	eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Clinton	Indiana bat	<i>Myotis sodalis</i>	Endangered
	Piping plover May be present in Clinton County during migration.		
Clinton		<i>Charadrius melodus</i>	Endangered
Clinton	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Clinton	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Clinton	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Clinton	Lakeside daisy	<i>Hymenoxys herbacea</i>	Threatened
Coles	Indiana bat	<i>Myotis sodalis</i>	Endangered
Coles	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Cook	Piping plover	<i>Charadrius melodus</i>	Endangered
Cook	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Cook	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Critical Habitat
Cook	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Endangered
Cook	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Cook	Leafy-prairie clover	<i>Dalea foliosa</i>	Endangered
Cook	Mead's milkweed	<i>Asclepias meadii</i>	Threatened
Cook	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Crawford	Indiana bat	<i>Myotis sodalis</i>	Endangered
Crawford	Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	Candidate
Crawford	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Crawford	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Cumberland	Indiana bat	<i>Myotis sodalis</i>	Endangered
Cumberland	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Dekalb	Indiana bat	<i>Myotis sodalis</i>	Endangered
Dekalb	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
DeWitt	Indiana bat	<i>Myotis sodalis</i>	Endangered
DeWitt	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Douglas	Indiana bat	<i>Myotis sodalis</i>	Endangered
Douglas	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Dupage	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Dupage	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Endangered

County	Common Name	Scientific Name	Status
Dupage	Hine's emerald dragonfly	<i>Somatochlora hineana</i>	Critical Habitat
Dupage	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Dupage	Leafy-prairie clover	<i>Dalea foliosa</i>	Endangered
Dupage	Mead's milkweed	<i>Asclepias meadii</i>	Threatened
Dupage	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Edgar	Indiana bat	<i>Myotis sodalis</i>	Endangered
Edgar	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Edwards	Indiana bat	<i>Myotis sodalis</i>	Endangered
Effingham	Indiana bat	<i>Myotis sodalis</i>	Endangered
Effingham	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Fayette	Indiana bat	<i>Myotis sodalis</i>	Endangered
	Piping plover May be present in Fayette County during migration.		
Fayette		<i>Charadrius melodus</i>	Endangered
Fayette	Eastern massasauga	<i>Sistrurus c. catenatus</i>	Candidate
Fayette	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Fayette	Prairie bush clover	<i>Lespedeza leptostachya</i>	Threatened
Ford	Indiana bat	<i>Myotis sodalis</i>	Endangered
Ford	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Ford	Mead's milkweed	<i>Asclepias meadii</i>	Threatened
Franklin	Indiana bat	<i>Myotis sodalis</i>	Endangered
	Piping plover May be present in Franklin County during migration.		
Franklin		<i>Charadrius melodus</i>	Endangered
Fulton	Indiana bat	<i>Myotis sodalis</i>	Endangered
Fulton	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Fulton	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Fulton	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Gallatin	Indiana bat	<i>Myotis sodalis</i>	Endangered
Gallatin	Fat pocketbook mussel	<i>Potamilus capax</i>	Endangered
Gallatin	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Greene	Indiana bat	<i>Myotis sodalis</i>	Endangered
Greene	Decurrent false aster	<i>Boltonia decurrens</i>	Threatened
Greene	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Grundy	Indiana bat	<i>Myotis sodalis</i>	Endangered
Grundy	Sheepnose mussel	<i>Plethobasus cyphus</i>	Candidate
Grundy	Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	Threatened
Hamilton	Indiana bat	<i>Myotis sodalis</i>	Endangered



Illinois Department of Natural Resources

<http://dnr.state.il.us>

One Natural Resources Way • Springfield, Illinois 62702-1271

Rod R. Blagojevich, Governor

March 7, 2003

Pat Kelsey
Christopher B. Burke Engineering West, St. Charles
116 West Main Street, Suite 201
Saint Charles, IL 60174

RE: Spartan Drive Extension, Phase 2, Kane
Natural Heritage Database Review # 303357

Dear Pat Kelsey:

Thank you for submitting this project for consultation in accordance with the Illinois Endangered Species Protection Act [520 ILCS 10/11], the Illinois Natural Areas Preservation Act [525 ILCS 30/17], and Title 17 Illinois Administrative Code Part 1075.

The Natural Heritage Database contains no records of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, or dedicated Illinois Nature Preserves in the vicinity. Consultation is terminated. Termination does not imply the Department's authorization or endorsement. Consultation may be re-opened if information or potential impacts, not previously considered, are brought to our attention. Consultation is valid for no more than three years; if the project has not been implemented by then, a new consultation will be necessary.

The Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of significant natural features in any specific location; consultation cannot replace detailed site surveys. Should a protected resource be encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Sincerely,

Rich Lewis

Richard Lewis
Endangered Species Consultation Program
Division of Natural Resource Review and Coordination
Ph. (217) 785-5500
Fax (217) 557-0728

Applicant: Wills Burke Kelsey Associates, Ltd.
Contact: Patrick VerHalen

IDNR Project #: 1100891
Alternate #: 10-0004,
303357

Address: 116 W. Main Street
St. Charles, IL 60174

Date: 07/27/2010

Project: ECC Parking Lot Expansion-Phase II
Address: 1700 Spartan Drive, West Parking Lot, Elgin

Description: The project will consist of providing additional parking due to recent campus expansion.

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

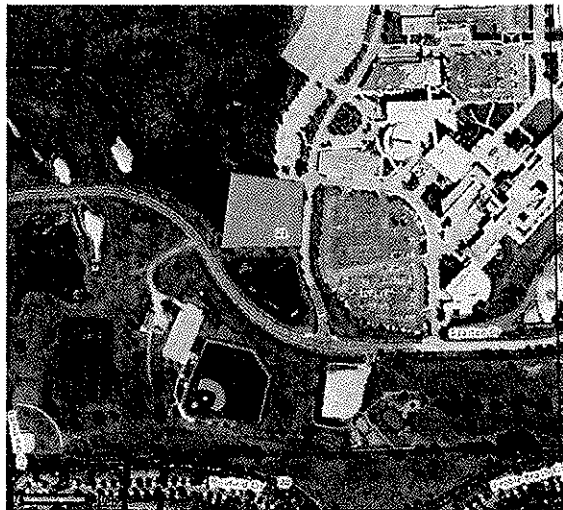
Consultation is terminated. This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Kane

Township, Range, Section:
41N, 8E, 21



IL Department of Natural Resources Contact
Rick Pietruszka
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
City of Elgin - Engineering
Mike Hall
9000 Holmes Road
Elgin, Illinois 60123

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
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RECEIVED 02-91

JAN 23 2004

CHRISTOPHER B. BURKE
ENGINEERING, WEST, LTD.



Illinois Historic
Preservation Agency

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

Voice (217) 782-4836

Page County

PLEASE REFER TO: IHPA LOG #012031003

Begin

Spartan Drive, Section:21-Township:41N-Range:8E,

CDDEWL-02-914,

Road Extension/Community College Expansion/Retail Development

January 21, 2004

Patrick Kelsey

Christopher B. Burke Engineering West, Ltd

116 West Main Street

Suite 201

St. Charles, IL 60174

Dear Sir:

Acre(s): 9 Site(s): 0

Archaeological Contractor: NIU Contract Archaeology Program- Atwell and Righeimer

Thank you for submitting the results of the archaeological reconnaissance. Our comments are required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

Our staff has reviewed the archaeological Phase I reconnaissance report performed for the project referenced above. The Phase I survey and assessment of the archaeological resources appear to be adequate. Accordingly, we have determined, based upon this report, that no significant historic, architectural, and archaeological resources are located in the project area.

Please submit a copy of this letter with your application to the state or federal agency from which you obtain any permit, license, grant, or other assistance. Please retain this letter in your files as evidence of compliance with Section 106 of the National Historic Preservation Act of 1966, as amended.

Sincerely,

Anne E. Haaker

Anne E. Haaker

Deputy State Historic

Preservation Officer

AEH

EC:



02-914

NORTHERN ILLINOIS
U N I V E R S I T Y

Mr. S. Brent Pottorff
Crawford, Murphy, & Tilly, Inc.
600 North Commons Drive, Suite 107
Aurora, Illinois 60504

DEPARTMENT OF ANTHROPOLOGY
DeKALB, ILLINOIS 60115-2854
(815) 753-0246

Re: Phase I Archaeological Survey
9 Acre Spartan Drive Extension
Kane County, Illinois
ASSR Vol. 13, No. 22

Dear Mr. Pottorff:

Enclosed please find the Archaeological Survey Short Report (ASSR) forms for the above referenced project. **Please forward three sets of the documents to the Illinois Historic Preservation Agency for review.**

The field inspection was conducted from December 3, 2003 to December 15, 2003 by Supervisor Karen A. Atwell and Crew Member Karen Righeimer.

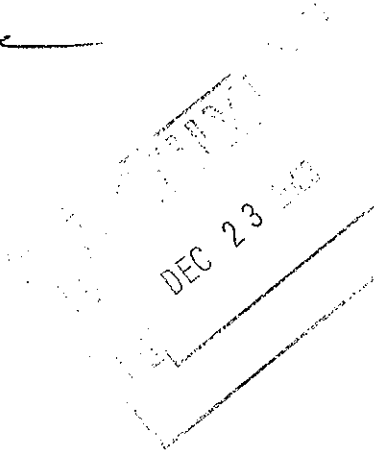
No archaeological remains were encountered during the inspection. On the basis of the results of investigation, the project is recommended for clearance from an archaeological perspective.

If you have any questions or comments, please contact me at our Northern Illinois University office (815-753-7544).

Sincerely,

Mark W. Mehrer, PhD
Associate Professor
Director, NIU-CAP

MWM: kat
enc.



A Phase I Archaeological Survey of the 9 Acre Spartan Drive Extension, Kane County, Illinois

for submission to:

Mr. S. Brent Pottorff
Crawford, Murphy, & Tilly, Inc.
600 North Commons Drive, Suite 107
Aurora, Illinois 60504

prepared by:

Karen A. Atwell
Supervisor
and
Karen M. Righeimer
Archaeological Technician

Mark W. Mehrer
Program Director
Principal Investigator

Contract Archaeology Program
Northern Illinois University
Department of Anthropology
DeKalb, Illinois 60115

CONTRACT ARCHAEOLOGY PROGRAM ARCHAEOLOGICAL SURVEY SHORT REPORT

**Volume 13, Number 22
December 19, 2003**

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ARCHAEOLOGICAL SURVEY SHORT REPORT

Illinois Historic Preservation Agency
Old State Capitol Bldg., Springfield, IL 62701
IHPA Log # 012031003

Reviewer _____
Date: _____
Accepted _____ Rejected _____
IHPA USE ONLY (Form ASSR0886)

LOCATIONAL INFORMATION AND SURVEY CONDITIONS

County: Kane
Quadrangle: Elgin Quadrangle 7.5' (1962)
Project Type/Title: Phase I/ Spartan Drive Extension

Funding and/or Permitting Federal/State Agencies: CoE
(i.e., CoE, HUD, IEPA, FmHA, etc.)

Sec: 21 T.: 41N R.: 8E Natural Division (No.): 3a (Schwegman 1973)

U.T.M.: N. 4652100 to 4652550 E. 389400 59 390100 Zone 16

Project Description: This is a Phase I survey of a nine acre parcel in Elgin township, Kane County, Illinois for Crawford, Murphy, and Tilly, Inc. who is constructing a twenty-two hundred foot extension of Spartan Drive. The project is bounded on the east by Spartan Drive, the Elgin Community College golf course to the south, and wetlands to the west and north.

Topography: The project area is part of the Otter Creek/Fox River floodplain drainage system. A tributary of Otter Creek has been channelized through the project area to drain water from this historically wet area. It is within 4 km of the Fox River where the elevations start at 700 feet above sea level (fasl) rise to 820 fasl along the southwest edge of the project, decrease to 800 towards the north and east. Otter Creeks is less than 1000 m to the west and north of the project area northwest corner at 780 fasl. Within 1200 m to the northwest the elevations rise to 900 fasl.

Soils: Beecher series, Brenton series, Casco series 10-15% slopes, Drummer series, Houghton series, Lorenzo series 2-10% slopes, Miami series 10-15% slopes (USDA) (See Continuation Section).

Drainage: A tributary in the project area joins Otter Creek before it reaches the Fox River.

Land Use/ground Cover (Include % Visibility): The project area vegetation varied. The western area consists of grassed detention ponds, pavement and gravel (Survey Unit 1). The middle area is a grassed golf course (SU 2). East of the creek can be divided into three sections: SU 3 is the existing road with pavement, grass, and gravel, SU 4 is mixed woods and grass, SU 5 is marsh, grass, weeds, and brush. The visibility across the area is 10% or less.

Survey Limitations: Survey limitations were caused by existing wetlands and land modifications to the survey area that include an 18 hole golf course, drainageways, a channelized creek, gravel roadways, and detention ponds.

ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Historic Plats/Atlases/Sources: No buildings were located in the project area on the 1860 map (Adin Mann), the 1872 map (Thompson and Everts), the 1904 map (Middle-West Publishers), the 1919 map (Elgin Daily News), the 1927 map (Thrifty Press), or the 1964 map (Rockford Map Publishers).

Previously Reported Sites: There are no previously recorded sites within the project area. Several archaeological sites are reported within a 1.6 km radius of the project area including 11K227, 11K239, 11K248, 11K247, 11K251, 11K256.

Previous Surveys: See Selected Sources

Regional Archaeologists Contacted: None, NIU-CAP frequently works in the area. Illinois State Museum GIS Site

File database was consulted for previously recorded surveys and sites.

Investigation Techniques: See Continuation Section.

Time Expended: 16 field hours

Sites/find Spots located: No sites were identified.

Cultural material: No cultural material was collected.

(Curated at): NIU

Collection techniques: All artifacts would have been collected if any were encountered.

Area surveyed (acres & square meters): 9 Acres (36,423m²)

RESULTS OF INVESTIGATION AND RECOMMENDATIONS: (check one)

- ☒ Phase I archaeological reconnaissance has located no archaeological material; project clearance is recommended.
- ☐ Phase I archaeological reconnaissance has located archaeological materials; site(s) does(do) not meet requirements for National Register eligibility; project clearance is recommended.
- ☐ Phase I archaeological reconnaissance has located archaeological materials; site(s) may meet requirements for National Register eligibility; further testing is recommended.
- ☐ Phase II archaeological investigation has indicated that site(s) does(do) not meet requirements for National Register eligibility; project clearance is recommended.
- ☐ Phase II archaeological investigation has indicated that site(s) meet requirements for National Register eligibility; formal report is pending and a determination of eligibility is recommended.

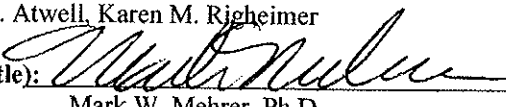
COMMENTS: No prehistoric or historical items were encountered within the project area. No buildings were located on plat maps

CONTRACTOR INFORMATION:

Arch. contractor: Northern Illinois University, Contract Archaeology Program
Address/phone: NIU, Dept. of Anthropology, DeKalb, IL 60115 (815) 753-7544
Surveyors: Karen Atwell, Karen Righeimer
Survey date(s): December 3, 2003 to December 15, 2003

Report completed by: Karen A. Atwell, Karen M. Righeimer

Date:

Submitted by (signature and title):  Program Director, NIU-CAP
Mark W. Mehrer, Ph.D.

ATTACHMENT CHECK LIST: (#1 THROUGH #4 ARE MANDATORY)

- ☒ 1) Relevant portion of USGS 7.5' topographic quadrangle map(s) showing project location and any recorded sites;
- ☒ 2) project map(s) depicting survey limits and, when applicable, approximate site limits and concentration of cultural materials;
- ☐ 3) site form(s): (two copies of each form);
- ☒ 4) all relevant project correspondence;
- ☒ 5) additional information sheets as necessary.

Address of contracting agency to whom SHPO comment should be mailed:

Mr. S. Brent Pottorff
Crawford, Murphy, & Tilly, Inc.
600 North Commons Drive, Suite 107
Aurora, IL 60504
Phone: (630)820-1022
Fax: (630)820-0350

Reviewers Comments:

CONTINUATION SECTION

Project Description:

Northern Illinois University was contacted by Mr. Brent Pottorff of Crawford, Murphy & Tilly, Inc.(CMT) to complete a Phase I survey of nine acres involved in the extension of an urban roadway that will impact on-site ponds and creek. CMT is doing this work for the City of Elgin. The archaeological clearance is necessary for an Individual Permit from the Corps of Engineers. The proposed road will cross the Spartan Meadows Golf Course associated with Elgin Community College and impact wetlands adjacent to the north and west. The proposed road plans were expanded to include two road alignment options and the area between these possible alignments.

Soils Continued:

Several different soils are located within the project area (see following table) (USDA 1979). The lowest elevation of the survey area is 800 feet above sea level and is located in the northern region of the project area. Soil in this area is composed mainly of Houghton Muck with a small section of Casco loam (10-15% slopes) which is formed under wetland vegetation and found in drainageways. The highest elevation of the survey area is 820 feet above sea level and is located in the southwestern section of the project area. Soil in this area is composed of a broad mix of soil types including; Brenton silt loam, Beecher silt loam, Miami silt loam (10-15% slopes), Drummer silty clay loam, Lorenzo clay loam to loam (2-10% slopes), Markham silt loam (5-10% slopes), Houghton muck, and Casco loam (10-15% slopes). Lorenzo loam (2-5% slopes) is only located in the southeastern section of the project area along the existing Spartan Drive. These soils are presently covered by the golf course, detention ponds, and associated banks.

Investigation Techniques and Results Continued:

The project area was subjected to a pedestrian survey. The staked alignments were walked and photographed. The project area is already highly modified except for the eastern end between the college parking lot and existing pond bank within SU 5. North of the project area and golf course is an area of wetland that appears to be relatively unmodified. This is based on a comparison of topographic quadrangle maps from 1962 to 1998. Photographs were taken and are presented from the western end of the project to the eastern end. The project area was divided into five Survey Units based on vegetation. Each area will be discussed briefly.

Survey Unit 1

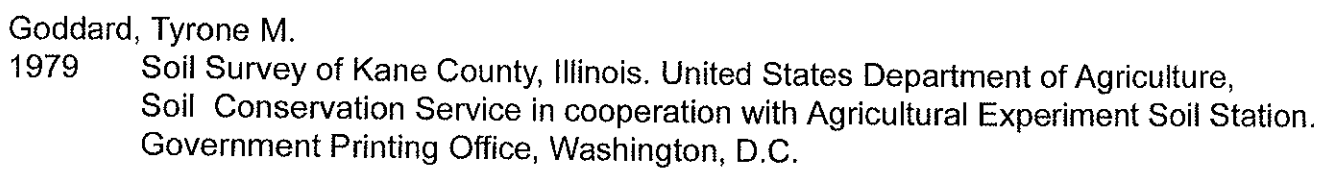
This area is the western third of the project. The ground cover in this area is a combination of grasses and pavement. The proposed road alignment enters this section at the bank for the existing detention pond. The entire area has been modified by construction of the incomplete road, detention ponds, and subdivision boundary. Any original natural or cultural deposits in this area would have been disturbed by this construction.

Survey Unit 2

This section of the project area crosses the golf course. There are ponds and linear dirt mounds throughout the golf course that were created with the golf course. The canalized creek runs along the eastern edge of this survey unit. From the amount of modifications throughout the golf course any original cultural deposits in the survey unit would be disturbed. This is also the area of some of the soils developed under marsh.

Table of Soils found in the Project Area

Series Name	ID #	Slope	Depths	Contents	Location	Natural Vegetation
Houghton	103		0-165 cm	poorly drained with several layers of black, decomposed organic material	located in closed depressions and broad drainageways	found under wetland vegetation
Casco	323D	10-15%	0-152.4 cm	well drained soils	located on upland ridgetops, side slopes, and knolls	found under vegetation
Drummer	152		0-177.8 cm	poorly drained with large subsoil	located on upland flats, in drainageways, depressions on outwash plains, end and ground moraines	found under wet vegetation
Brenton	149		0-152.4 cm	poorly drained with mottled subsoil	located on upland drainageways, shallow depressions, outwash plains, low lying ridges	found under vegetation
Beecher	298		0-152.4 cm	poorly drained soils	located on flats, end moraines, drainageways	found under vegetation
Miami	27D2	10-15%	0-152.4 cm	eroded soils	located on convex knolls and sideslopes	found under vegetation
Lorenzo	318C2	5-10%	0-152.4 cm	eroded soils	located on convex ridgetops, side slopes, and knolls	found under vegetation
Lorenzo	318B	2-5%	0-152.4 cm	well drained soils	located on outwash ridges and knolls	found under vegetation
Markham	531C2	5-10%	0-152.4 cm	well drained soils includes poorly drained Beecher and Milford in matrix	located on well drained, short, uneven side slopes and ridges	found under agriculture



Survey Unit 3

This is the existing road into the golf course. The road has been placed on an embankment with a pond to the east and the creek to the west. The pavement is edged by gravel and grass (See photographs). This area is disturbed with no evidence of intact soils.

Survey Unit 4

This area is being actively disturbed by construction of a nearby baseball diamond which is outside the project area. Dirt is being dumped in piles and used to create a path into the lower wetland area to the north. New dirt and gravel has been added to this area in the last couple of months. The vegetation being covered by the gravel is slowly dying. Trees are also being removed at the present time. Some were removed between the first and second visit of the survey crews to the project area. This includes some tree/brush removal along the creek bank which is the western edge of SU 4.

The pavement of SU 3 turns to gravel and crosses the creek into the golf course within SU 4. The central part of the survey unit appears to have been flattened or built-up. There is a bank that runs along the pond just south of SU 4 and SU 5 and, the central portion of SU 4 is at the same height as this bank. It is difficult to determine the amount of area that is original versus modified by construction. The creation of the gravel path into the wetland has disturbed any remaining area along the north end of SU 4.

Survey Unit 5

The vegetation and soil in this area appears to be the most intact of any in the project area. It is a combination of wetland plants, grasses, and common weeds. The soils in this area (Houghton Muck) are those found under wet soils. The edges of the survey unit are the pond bank to the south, existing road to the east, slope to SU 4 on the west, the existing parking lot on the northeast, and along the northwest it runs into the wetlands north of the project. Due to the wetness of the area and the soils indicate that this has been wet historically, no evidence of cultural activity is likely.

Summary and Recommendations:

Examination of the nine acres associated with this project has determined that there is no significant cultural material within the project area. The bulk of the project area has been heavily disturbed by the construction of the golf course, detention ponds, existing ponds, stream canalization, roads and property boundaries. Most of this construction has included the addition of soils to build up the elevation of the area which is naturally a wetland. The change in elevation is obvious when compared to the existing wetland east and north of the project area and golf course. SU 5 is the only area where there might be intact soils, but there has been construction on all but one side. As indicated by soils that develop under marsh (Houghton Muck) being present in this area, it has been wet for a very long time and unlikely to have been used prehistorically for habitation. This pattern continued through historic times since no buildings are present on historical plat maps.

No archaeological remains were encountered during the inspection. No buildings are noted on historical plats and atlases. On the basis of the results of investigation, the project is recommended for clearance from an archaeological perspective. The dumping of excess dirt into the remaining wetland north of Survey Unit 4 and the present project area should not continue as it detrimentally impacts cultural assessment of this area. In as much as no survey technique is totally adequate to locate all cultural materials in a given vicinity, should any such materials be encountered during construction activities, the Illinois Historic Preservation Agency should be notified immediately.

SELECTED SOURCES

Bateman, Newton and Paul Selby

- 1904 *Historical Encyclopedia of Kane County, Illinois and the History of Kane County.* Munsell Publishing Company, Chicago.

Berres, Thomas E.

- 1996 *Archaeological Reconnaissance of 57 Acres for the Proposed Burlington Meadows Subdivision in Kane County, Illinois.* Public Service Archaeology Program. Archaeological Survey Short Report submitted to the Illinois Historic Preservation Agency, Springfield, 19 November 1996.
- 1999 *A Phase I Archaeological Survey of the Norton Farm Project, Kane County, Illinois.* Northern Illinois University Contract Archaeology Program. Archaeological Survey Short Report 10(1). DeKalb, Illinois.
- 1999 *A Phase I Archaeological Survey of the Peck Farm Project, Kane County, Illinois.* Northern Illinois University Contract Archaeology Program, Archaeological Survey short Report 10(33). DeKalb, Illinois.
- 2001 *A Phase I Archaeological Survey of the 625 Acre Blackberry Creek Subdivision Project, Kane County, Illinois.* Northern Illinois University Contract Archaeology Program. Archaeological Survey Short Report 11(42). DeKalb, Illinois.

D.W. Ensign and Company

- 1892 *Atlas of Kane County, Illinois.* D.W. Ensign and Company, Chicago, Illinois.

Elgin Daily News

- 1919 *Farm Ownership Map and Plat Book Guide, Kane County, Illinois.* Lowrie and Black Company, Elgin, Illinois.

Goddard, Tyrone M.

- 1979 *Soil Survey of Kane County, Illinois.* United States Department of Agriculture, Soil Conservation Service in cooperation with Agricultural Experiment Soil Station. Government Printing Office, Washington, D.C.

Mann, Adin

- 1860 *Map of Kane County, Illinois.* Matthews, Crane and Company, Philadelphia, Illinois.

Middle-West Publishing Company

- 1904 *20th Century Atlas, Atlas of Kane County, Illinois.* Middle-West Publishing Company, Chicago, Illinois.

Rockford Map Publishers

- 1964 *Tri-Annual Atlas and Plat Book of Kane County, Illinois.* Rockford Map Publishers, Rockford, Illinois.

Thompson and Everts

1872 *Combination Atlas Map of Kane County, Illinois*. Thompson and Everts, Geneva, Illinois.

Thrift Press

1927 *Atlas and Plat Book of Kane County, Illinois*. The Thrift Press, Rockford, Illinois.

United States General Land Office

1840 *Survey Plat of T41 North, Range 8 East*. Archives-Lane Records.

United State Geological Survey

1962 *Elgin 7.5' Quadrangle Map*. United States Geological Survey, Washington, D.C.

1962 *Elgin 15' Quadrangle Map photorevised in 1972 and 1980*. United States Geological Survey, Washington, D.C.

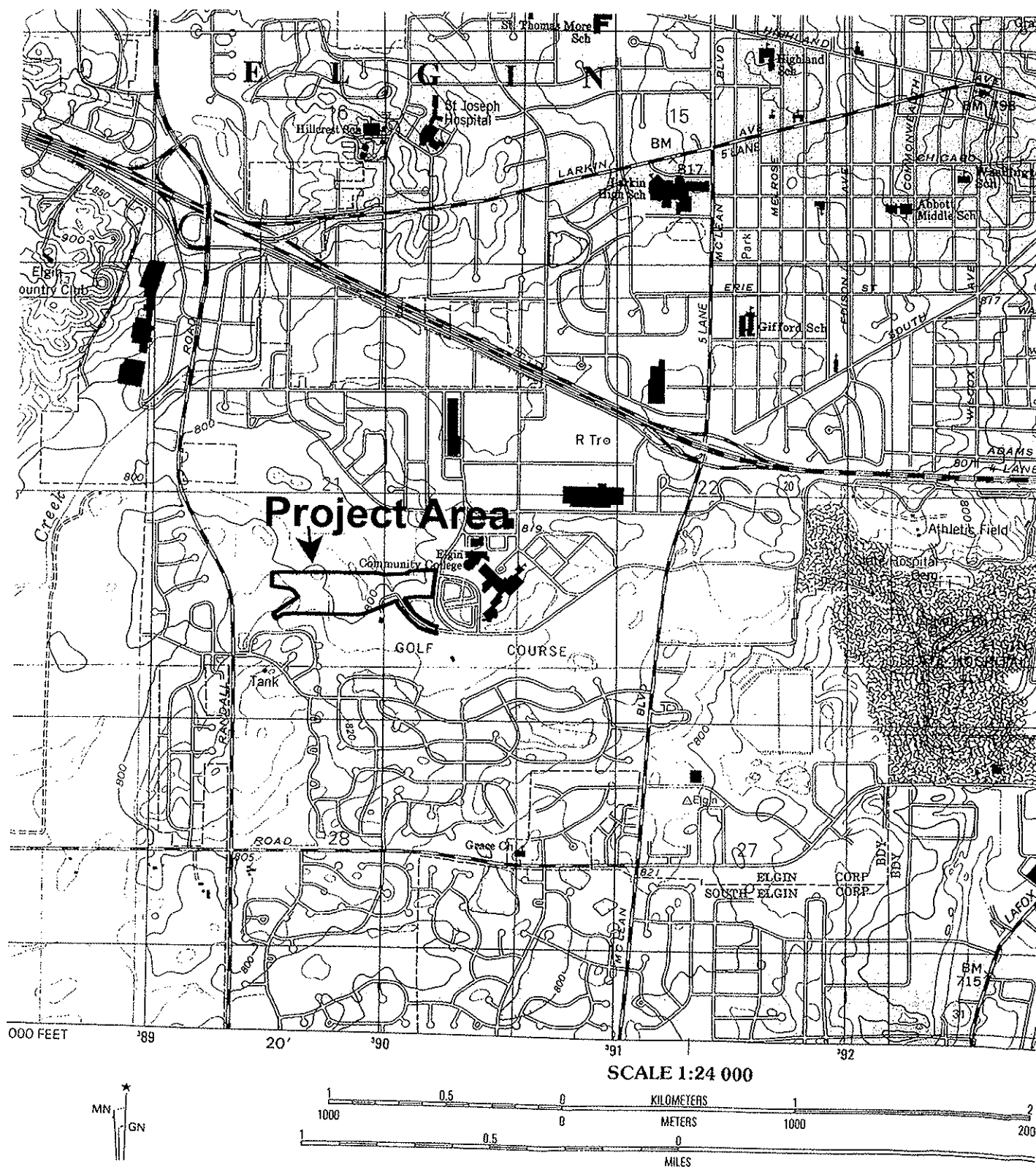
1992 *Elgin 15' Quadrangle Map*. United States Geological Survey, Washington, D.C.

1998 *Elgin 15' Quadrangle Map*. United States Geological Survey, Washington D.C.

W.W. Hixson and Company

N.d. *Plat Book of Kane County, Illinois*. W.W. Hixson and Company, Rockford, Illinois.

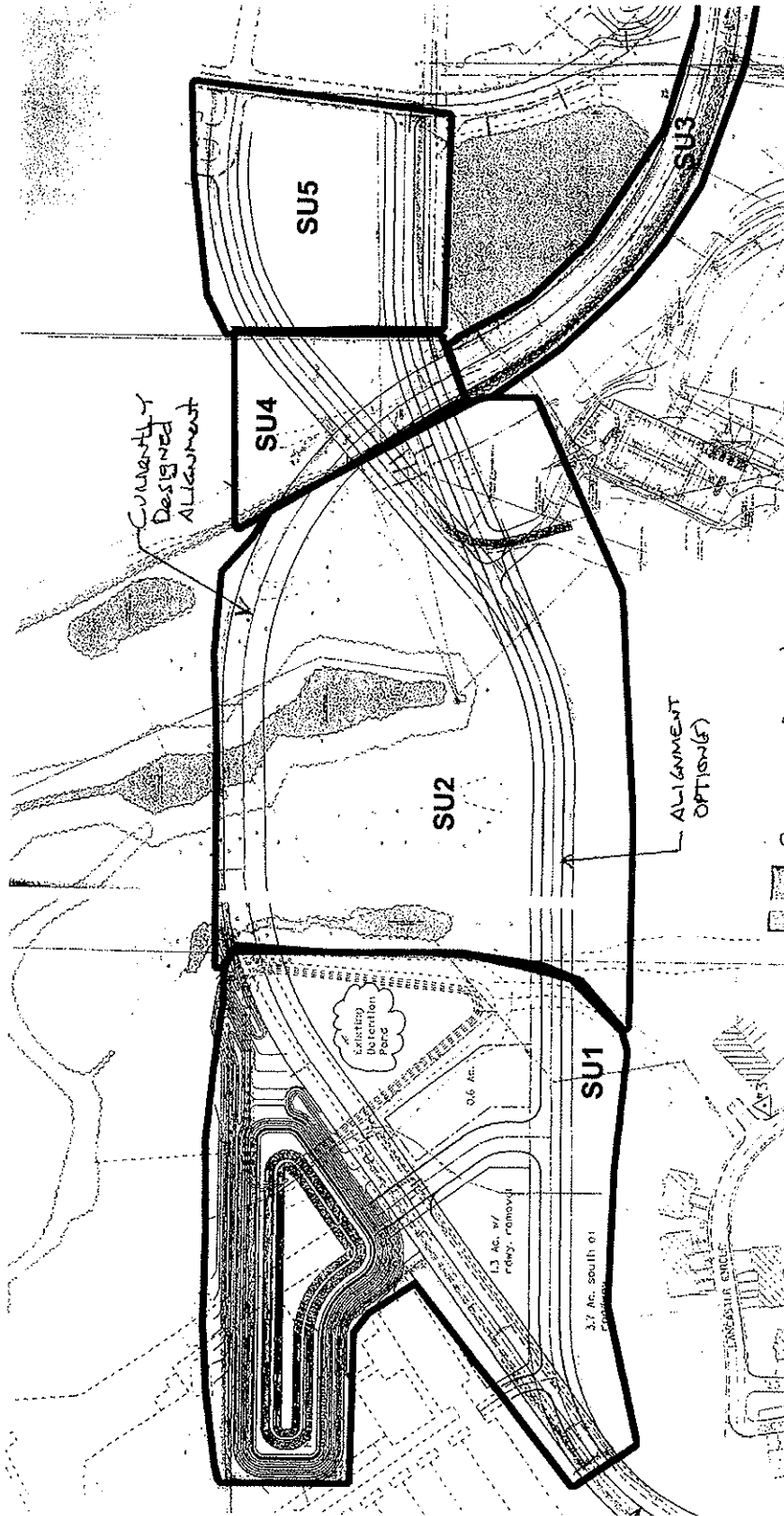
PROJECT MAPS

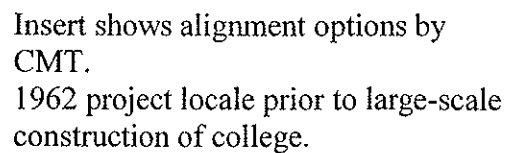


Elgin, IL
SE/4 ELGIN 15' QUADRANGLE
NIMA 3368 III SE-SERIES V863
1998

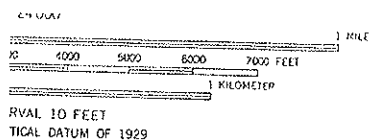
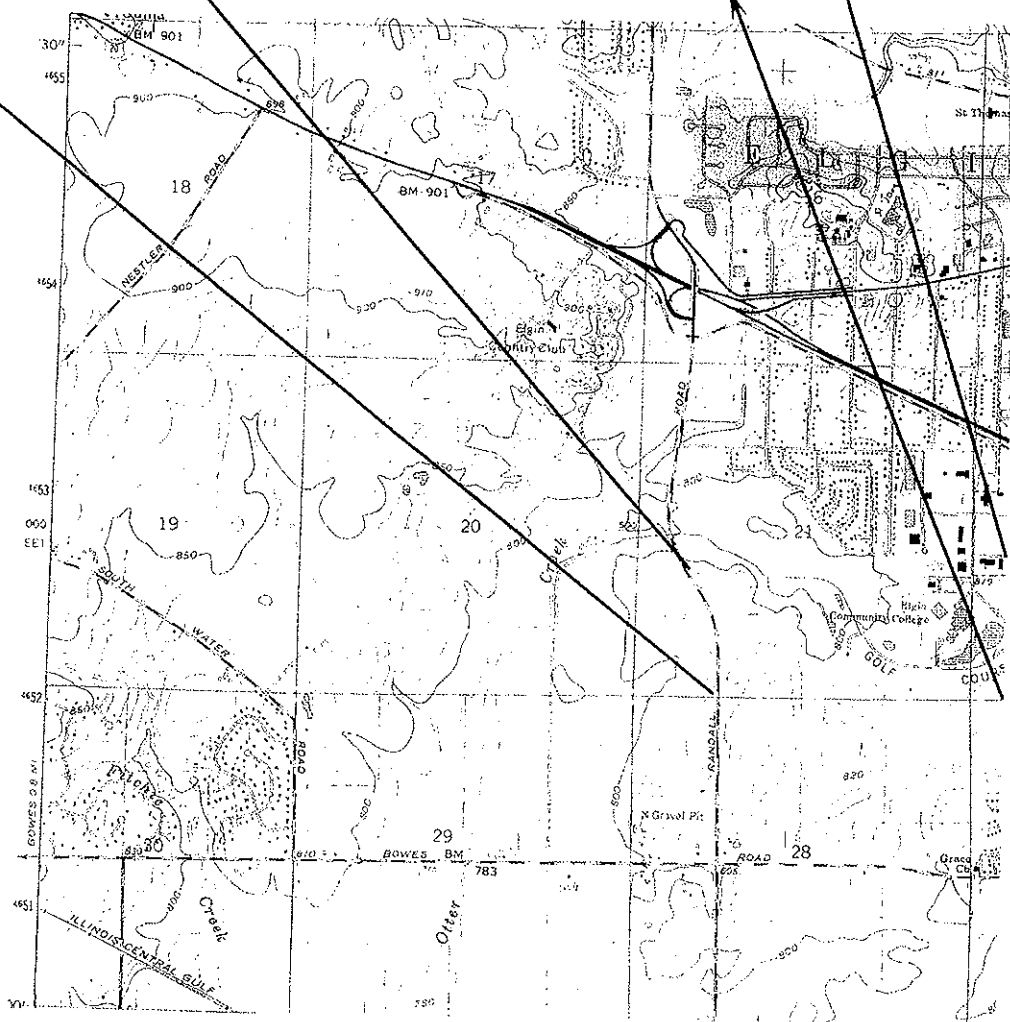
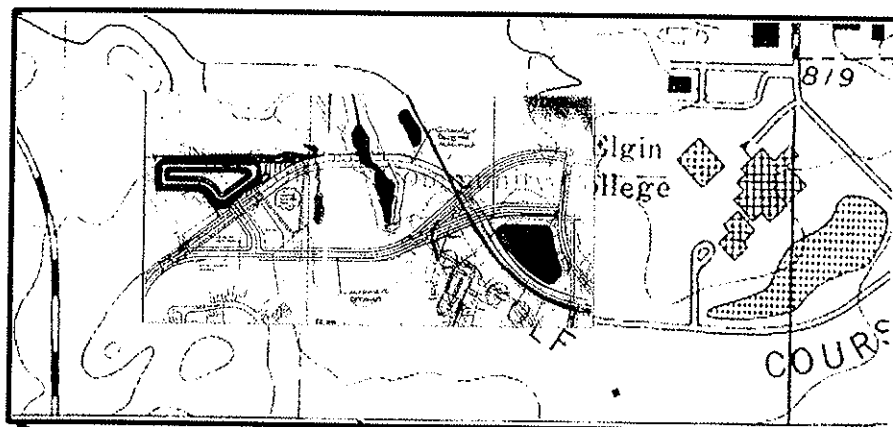
1998 Elgin topographic quadrangle map showing project area.
This map is the final map of the sequence starting from 1962.

Proposed Project Area with both road alignments.





AMS 3368 III SE --SERIES V863



NATIONAL MAP ACCURACY STANDARDS
TOPOGRAPHIC SURVEY
FOR RESTON, VIRGINIA 22092
VEY, CHAMPAIGN, ILLINOIS 61820
AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs
taken 1972 and 1978. Map edited 1980
This information not field checked

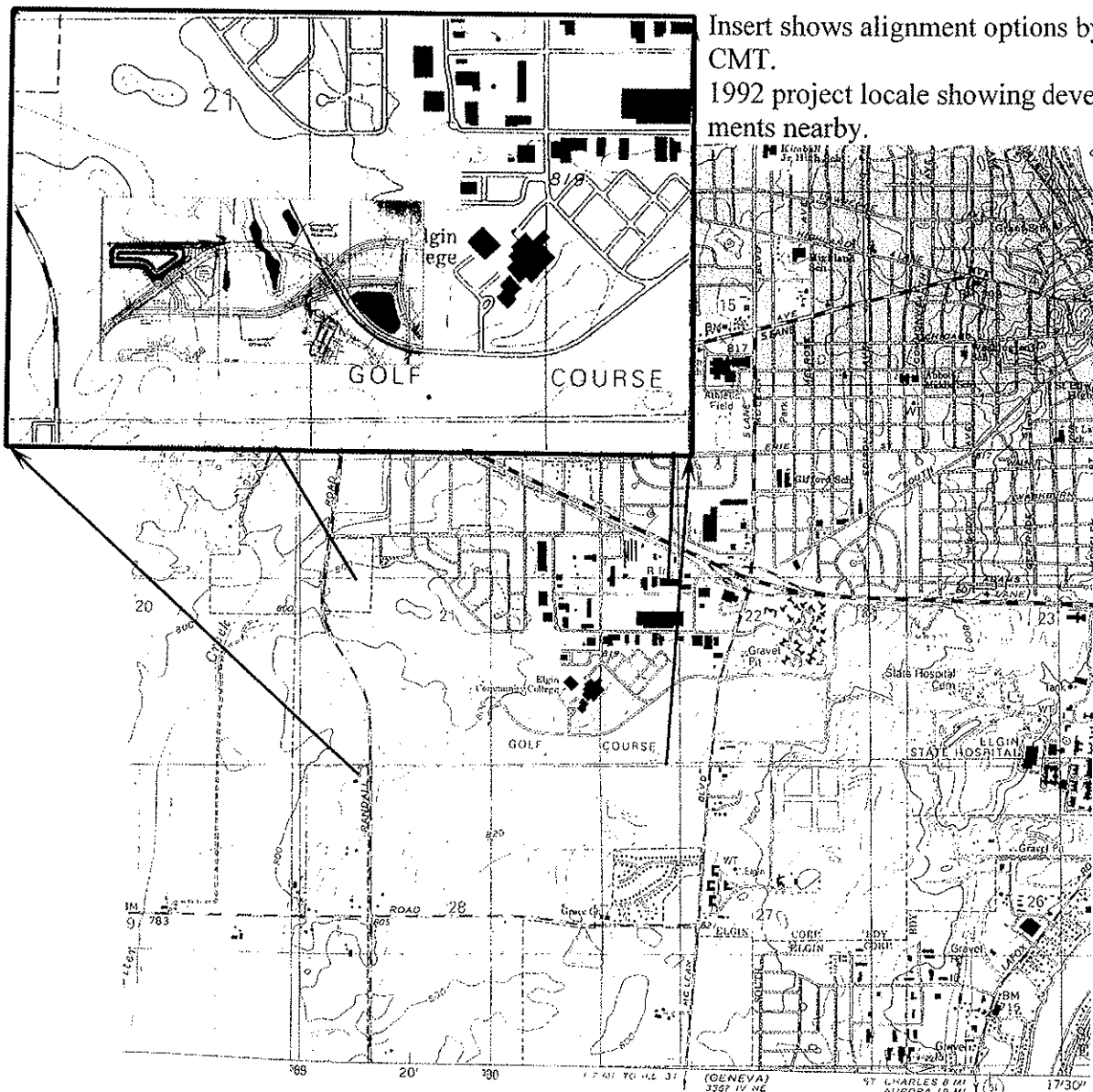
Purple tint indicates extension of urban area

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

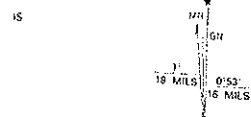
ELGIN, ILL.

SE/4 ELGIN 15' QUADRANGLE
42088-A3-TF-024

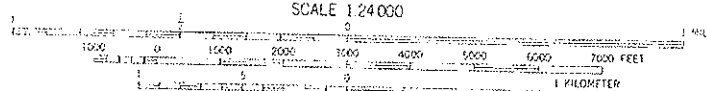
1962
PHOTOREVISED 1972 AND 1980
DMA 3368 III SE—SERIES V863



Insert shows alignment options by CMT.
1992 project locale showing developments nearby.



UTM GRID AND 1992 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

COMPLIES WITH U. S. GEOLOGICAL SURVEY STANDARDS FOR SPATIAL ACCURACY CLASS 2
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND ILLINOIS GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route



QUADRANGLE LOCATION

ELGIN, ILL.
SE 1/4 ELGIN 15' QUADRANGLE
42088-A3-TF-024

1992

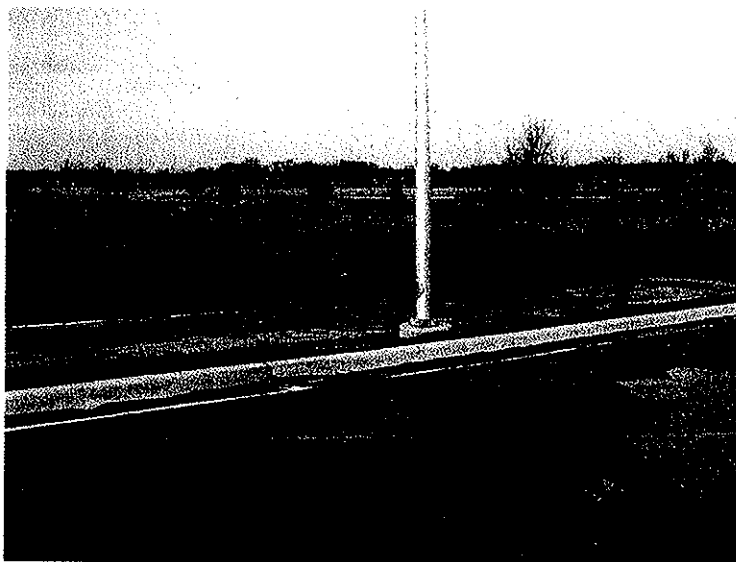
DMA 3368 III SL-SERIES V863

PROJECT PHOTOGRAPHS



From existing road at west end of the project facing northeast looking across survey area toward modified bank and detention pond.

From existing road facing northwest looking across survey area toward modified bank of detention pond and wetland area.



From existing road facing north looking across Survey Unit 1 detention pond towards golf course. Looking along optional northern alignment.

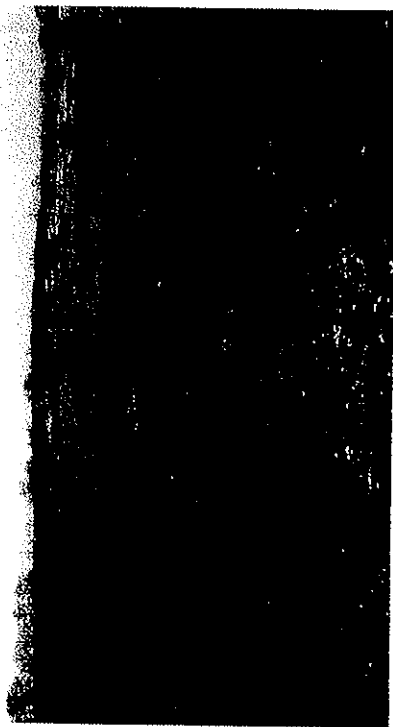
Spartan Drive Extension photographs from western edge of project area.



Looking southwest from SU 1 detention pond toward proposed route of Spartan Drive Extension.



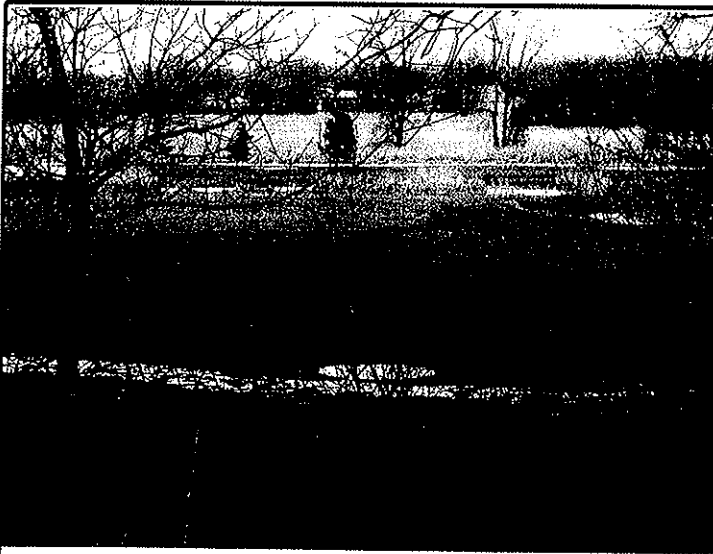
Looking southwest from detention pond toward drainage grate and modified bank in SU 1 just north of the existing road.



From top of modified burn just north of existing road on western edge of project area looking west.

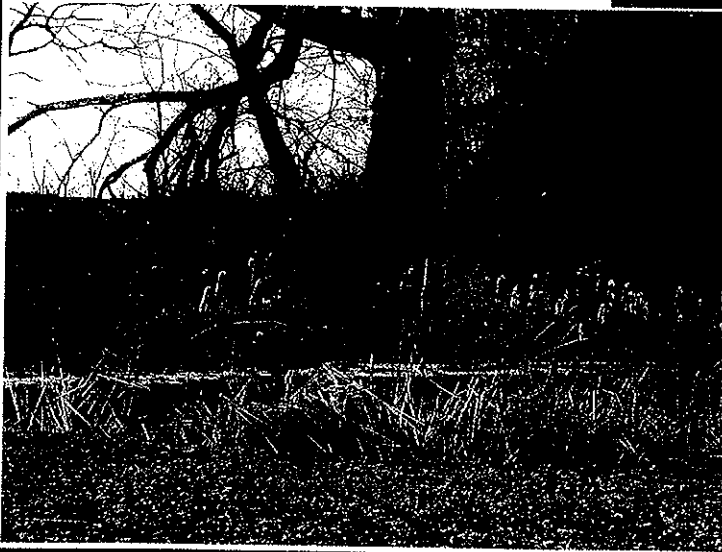


Looking southwest from SU 1 detention pond toward drainage grate and existing road.



From top of detention pond bank facing northeast across project area toward golf course and wetland area.

View of northeast corner of existing detention pond from golf course facing northwest. Stakes for northern alignment option are just visible by tree. Close up of stakes below.



Stakes mark the location of the proposed path of the 1st alignment option with the northeast corner of the bank surrounding the existing detention pond. Modified pond in foreground.

Spartan Drive Extension photographs from modified area in project area.



Looking east along 2nd alignment option in SU 2 toward Elgin Community College. Stake visible.



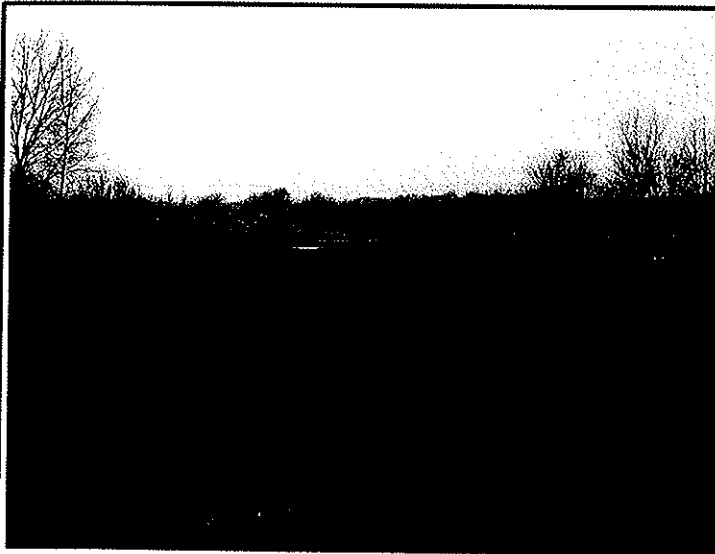
From the existing Spartan Drive facing west looking at SU 5 projected path of 2nd alignment option.



Photograph of stakes marking the southern (2nd) alignment crossing the golf course towards the southern edge of the detention pond..

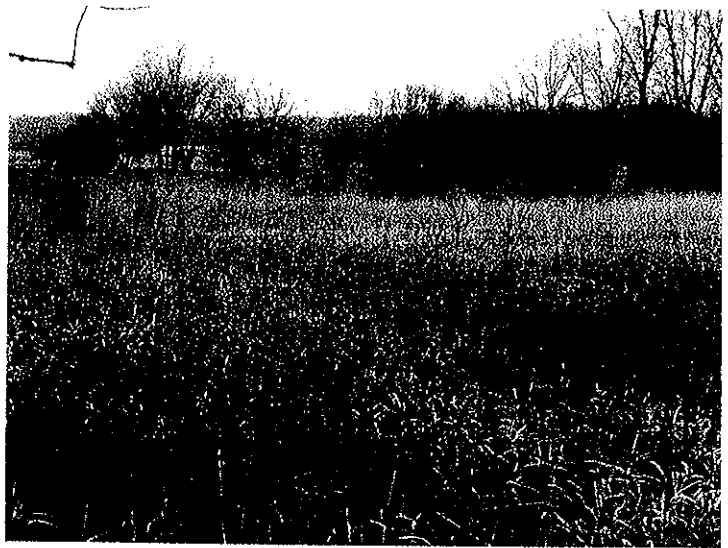


Looking from SU 2 (golf course) toward wetland



Facing northwest from Survey Unit 4 north edge looking toward wetland area. The following photographs are a sequence of views of the wetland from west to east.

First sequence photograph. Tree in center of above is the same tree in photograph to the right. Facing northwest from the north edge of SU 4. This is the part of the area of the northern alignment option.



Second sequence photograph looking north northwest across wetland area.

Spartan Drive Extension photographs from northern part of project area.



Third sequence photograph from north edge of SU 4 looking north.

Fourth sequence photograph from north edge of SU 4 standing on newly laid gravel looking north northeast towards subdivision.



Fifth sequence photograph from north edge of SU 4 looking northeast.

Spartan Drive Extension photographs from northern part of project area.



Photograph of creek along west edge of SU 4 looking north. Clearing of brush and small trees has occurred between December 3rd and December 16, 2003.

View of creek looking south in SU 4 from modified area. The newly modified cut bank is visible near drainage pipes. Baseball park under construction and a portion of the road in SU 3 is visible in the background.



Photograph of the central area of SU 4 where a large metal piece has been pushed off of the edge of the flattened area. View is to the northeast from the creek crossing.

Spartan Drive Extension photographs of modified area in eastern part of survey area.

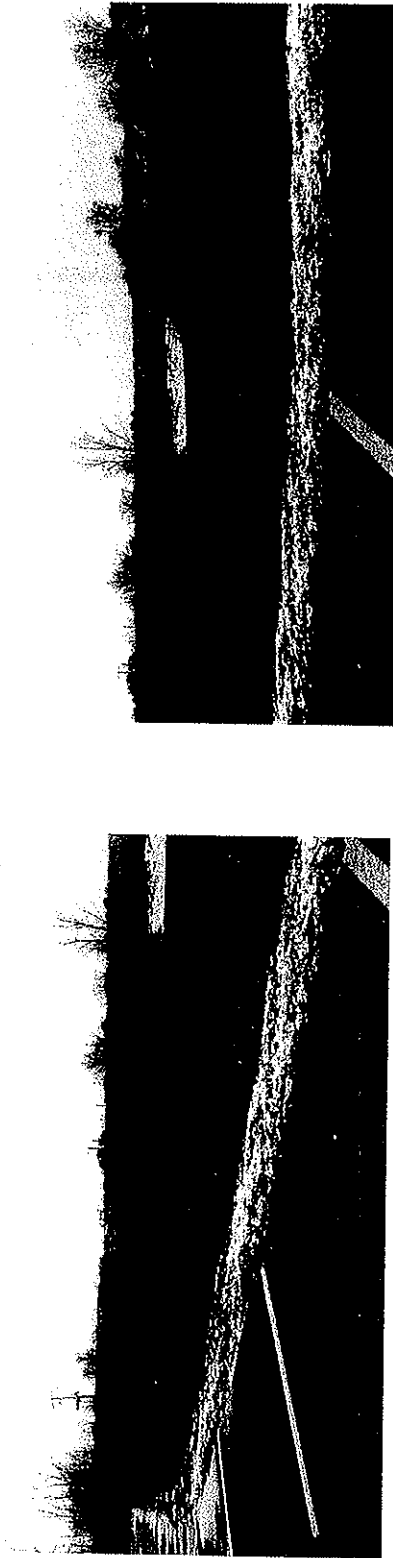


From Spartan Drive looking west toward large dirt pile in Survey Unit 4 across Survey Unit 5. Photograph taken from bank of road showing lower vegetation of SU 5.



Looking west from Spartan Drive toward road extension construction entrance and project area. This is Survey Unit 3. Landscaping of ground is visible.

Spartan Drive Extension photographs taken from eastern edge of survey area.



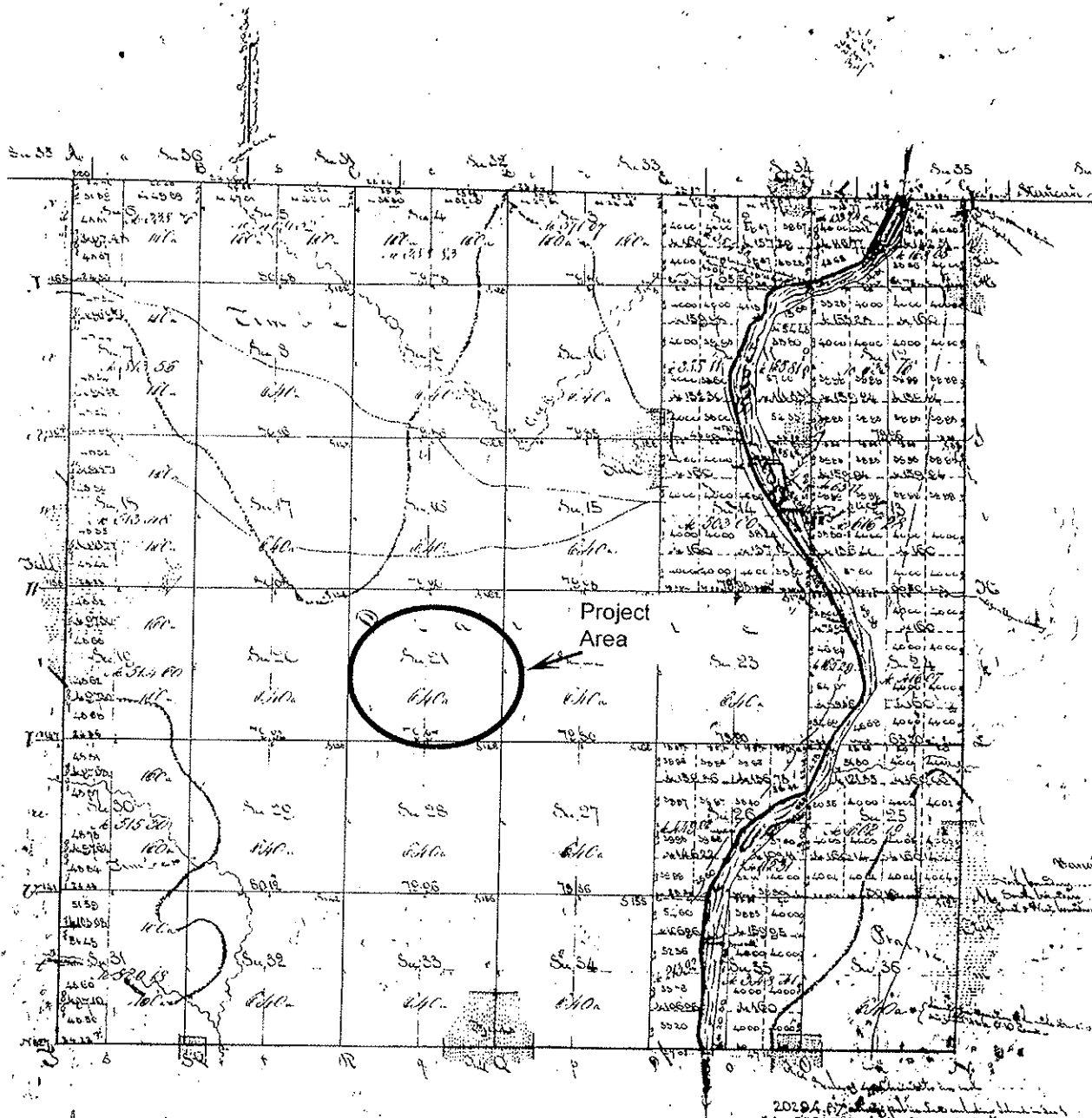
Sequences of two photographs from existing college parking lot moving north to south showing the remaining wetland between the subdivision and the golf course. The view is toward the west from the parking lot.

Spartan Drive Extension photographs from northeastern parking lot.

HISTORICAL PLATS AND ATLASES

Township 41 North of the base line Range 8 East of the principal meridian

T41N-R8E

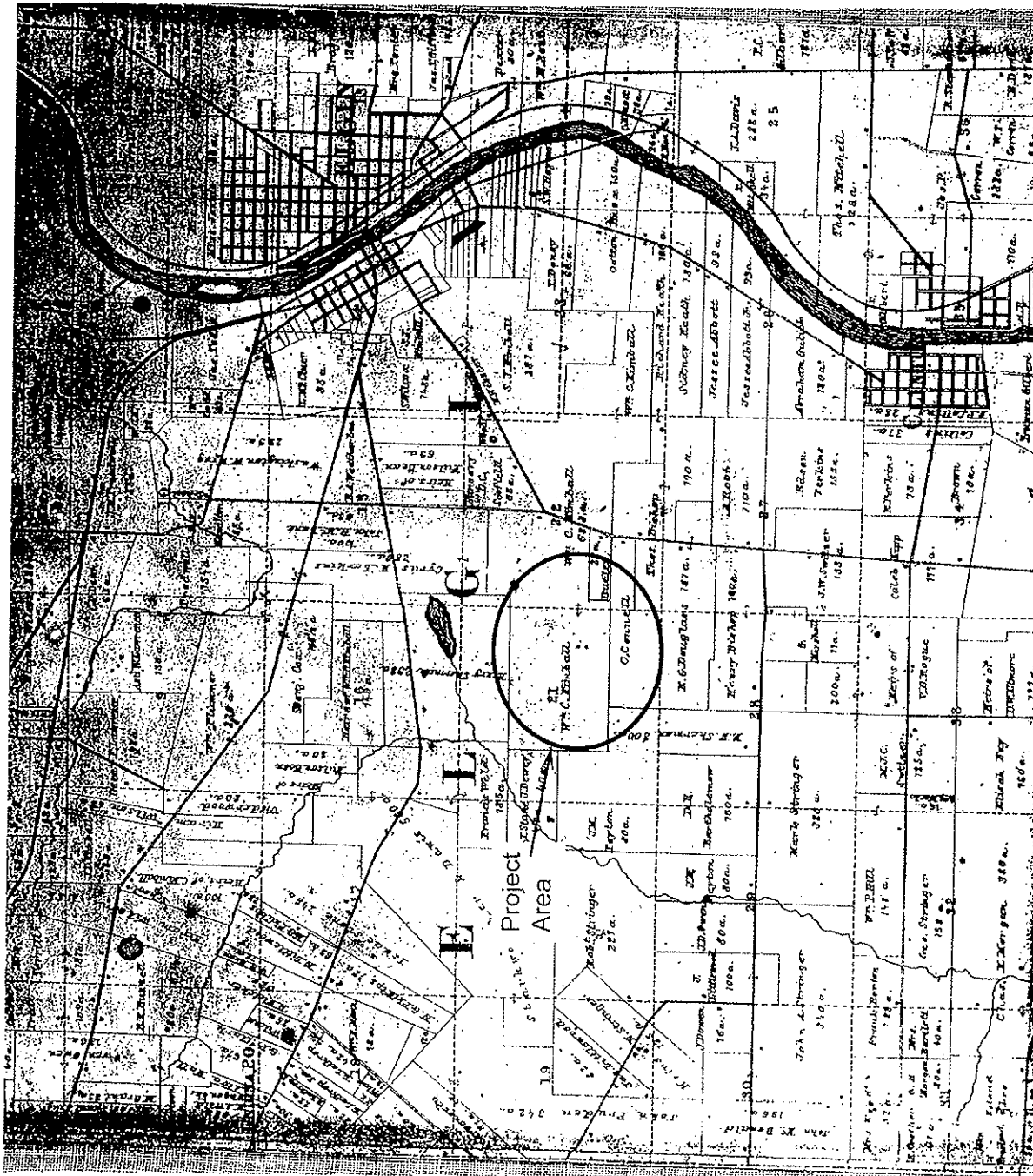


Surveyor's Office, Saint Louis 21st of August, 1842.

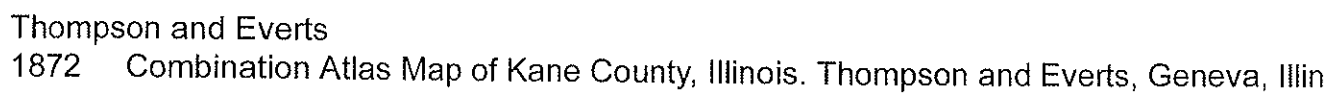
The above plat of township 41 north of the base line, range 8 east of the 3rd principal meridian, is strictly conformable to the field notes of the survey, taken on the 21st of August, 1842, by the Surveyor General, and by Thompson on the 15th of December 1856. It was paid for in the 2nd quarter of 1857, by James Thompson and his co-partners, by the Surveyor General, on the 21st of November and by Thompson on the 15th of December 1856. It was paid for in the 1st quarter of 1859, and charged in the account current of the Surveyor General, during the 2nd quarter. Books No 6 - The South boundary 5 miles 67 1/2 chains, the North boundary 5 miles 67 1/2 chains, and the West boundary 5 miles 52 1/2 chains, were surveyed in the 1st quarter of 1859, by James Thompson and John S. Houston, under their joint contract of the 21st of September, 1859. They were paid for in the 3rd quarter of 1860, and charged in the account current of the Surveyor General, during the 3rd quarter. Books No 17. The subdivision line 56 miles 6 1/2 chains; the narrow of both banks of Fox river, 15 miles and 3/4 chains, and of an island in section 1, and

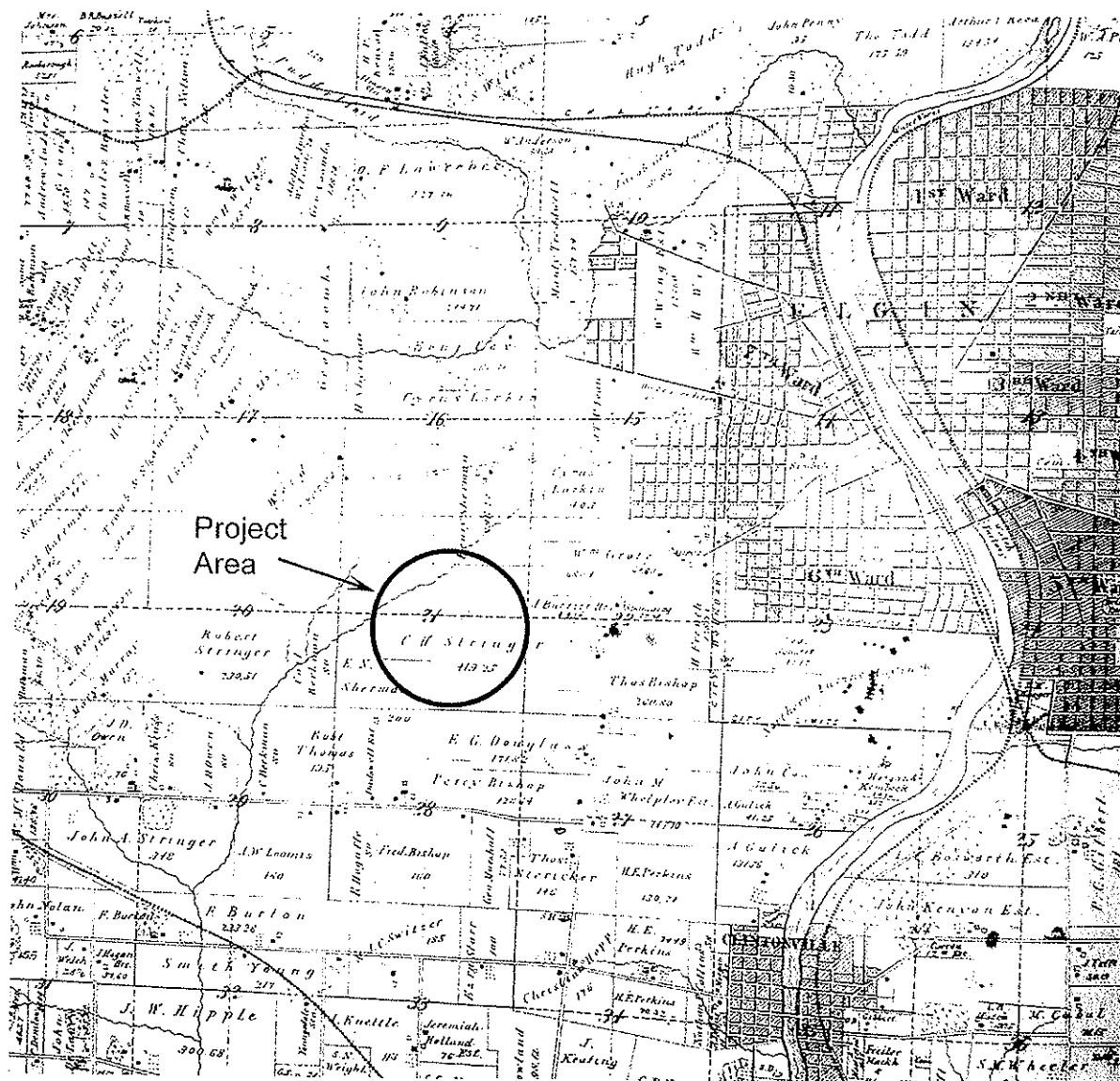
United States General Land Office

1840 Survey Plat of T41 North, Range 8 East. Archives-Lane Records.

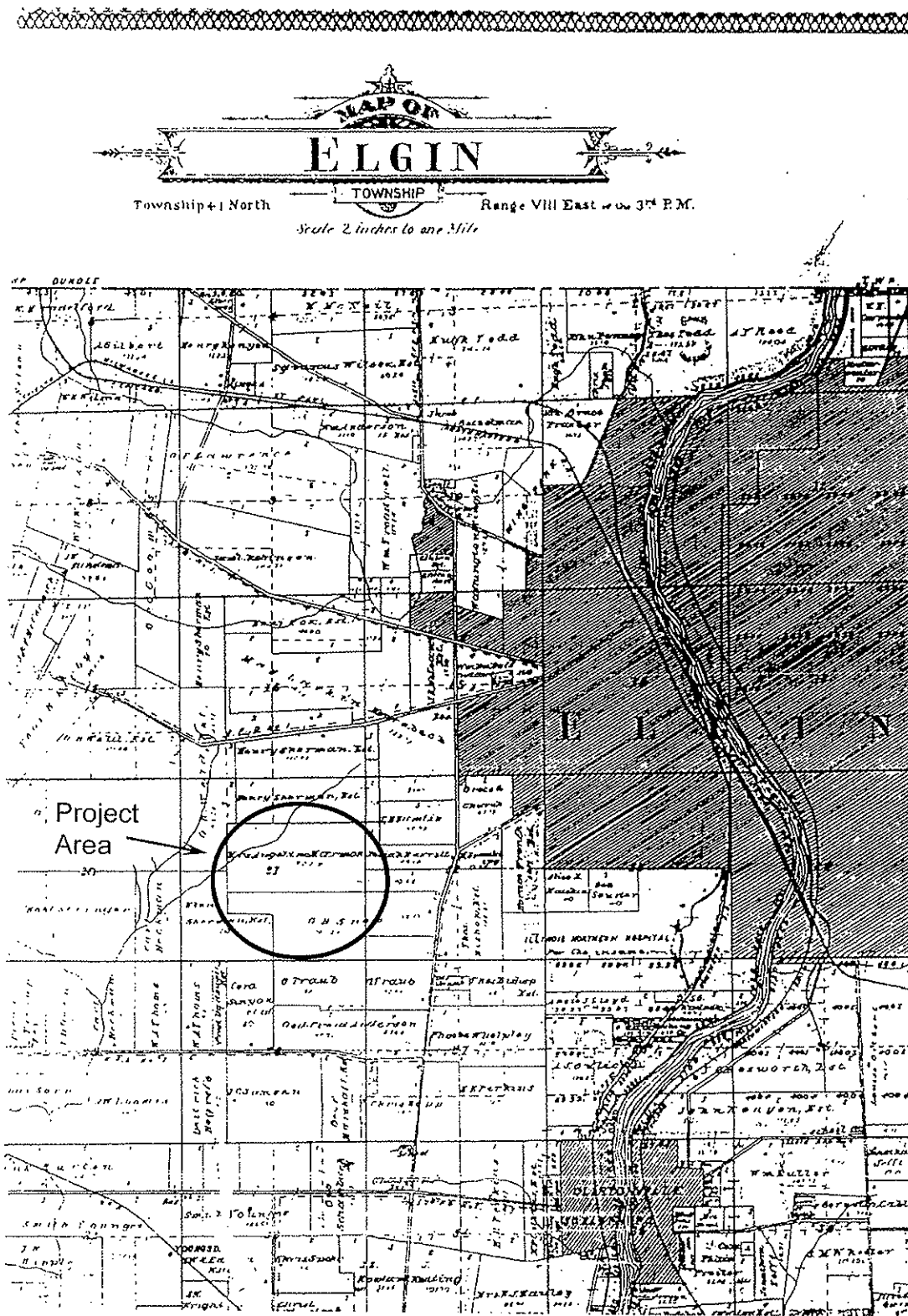


Mann, Adin
1860 Map of Kane County, Illinois. Matthews, Crane and Company, Philadelphia, Illinois.



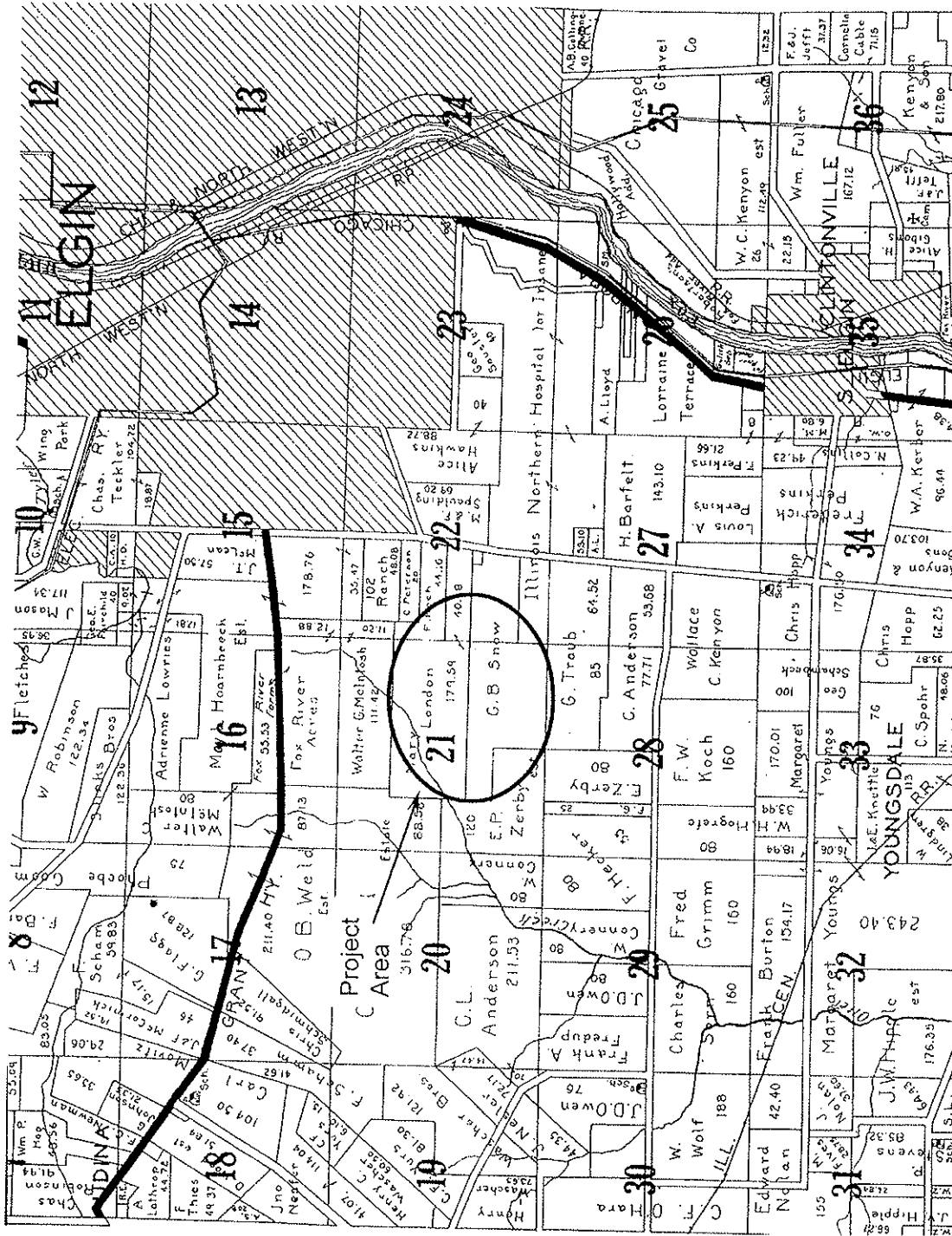


D.W. Ensign and Company
1892 Atlas of Kane County, Illinois. D.W. Ensign and Company, Chicago, Illinois.



Middle-West Publishing Company
1904 20th Century Atlas, Atlas of Kane County, Illinois. Middle-West Publishing Co.,
Chicago, Illinois.





Thrift Press
1927 Atlas and Plat Book of Kane County, Illinois. The Thrift Press, Rockford, Illinois.



Rockford Map Publishers

1964 Tri-Annual Atlas and Plat Book, Kane County, Illinois. Rockford Map Publishers, Rockford, Illinois.

CORRESPONDENCE

MAY-02-2003 08:33

C. BURKE ENG. WEST

630 443 0533 P.02/06



**Illinois Historic
Preservation Agency**

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

RECEIVED

MAY 01 2003

Christopher B. Burke Engineering West, Ltd.

Voice (217) 782-4836

Kane County
Elgin
Spartan Drive, Section:21-Township:41N-Range:8E
CBBEWL-02-914
Road Extension/Community College Expansion/Retail Development

PLEASE REFER TO: IHPA LOG #012031003

April 25, 2003

Patrick Kelsey
Christopher B. Burke Engineering West, Ltd
116 West Main Street
Suite 201
St. Charles, IL 60174

Dear Sir:

The Illinois Historic Preservation Agency is required by the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420, as amended, 17 IAC 4180) to review all state funded, permitted or licensed undertakings for their effect on cultural resources. We have received information indicating that the referenced project will, under the state law cited above, require comments from our office and our comments follow. Should you have any contrary information, please contact our office at the number below.

According to the information provided to us concerning your proposed project, apparently there is no federal involvement in your project. However, please note that the state law is less restrictive than the federal cultural resource laws concerning archaeology, therefore if your project will use federal loans or grants, need federal agency permits or federal property then your project must be reviewed by us under a slightly different procedure under the National Historic Preservation Act of 1966, as amended. Please notify us immediately if such is the case.

The project area has a high probability of containing significant prehistoric/historic archaeological resources. Accordingly, a Phase I archaeological reconnaissance survey to locate, identify, and record all archaeological resources within the project area will be required. This decision is based upon our understanding that there has not been any large scale disturbance of the ground surface (excluding agricultural activities) or major construction activity within the project area which would have destroyed existing cultural resources prior to your project. If the area has been disturbed, please contact our office with the appropriate written and/or photographic evidence. The area(s) that need(s) to be surveyed (within the zone that needs to be surveyed) include(s) all area(s) that will be developed as a result of the issuance of the state agency permit(s) or the granting of the state funds or loan guarantees that have prompted this review. Enclosed you will find an attachment briefly describing Phase I surveys and listing archaeological contracting services. A COPY OF OUR LETTER WITH THE IHPA LOG NUMBER SHOULD BE PROVIDED TO THE SELECTED PROFESSIONAL ARCHAEOLOGICAL CONTRACTOR TO ENSURE THAT THE SURVEY RESULTS ARE CONNECTED TO YOUR PROJECT PAPERWORK.

If you have any further questions, please contact Eric G. Hansen, Staff Archaeologist at 217/785-4998.

Sincerely,

Anne E. Haaker
Deputy State Historic
Preservation Officer

AEH

Enclosure



June 3, 2003

Northern Illinois University
Department of Anthropology
DeKalb, Illinois 60115-2854

Attn: Dr. Thomas E. Berres, PH.D.

Re: *City of Elgin
Spartan Drive Extension - Phase II
Proposal for Professional Services
CMT Project # 02265-01-00-107*

Dear Dr. Berres:

CMT was selected and has been working for the City of Elgin to provide professional services for the above referenced project. The project consists of constructing a twenty-two hundred foot section of urban roadway through Spartan Meadows Golf Course in the City of Elgin. The project is located between Randall Road/College Green Drive intersection and McLean Blvd. Impacts to on-site ponds and a creek that is tributary to Otter Creek requires us to seek an Individual Permit from the Corps of Engineers. Our sub-consultant Christopher B. Burke is completing the permit process. As part of the permit process, we have been requested by the Illinois Historic Preservation Agency to do a Phase I Archaeological Reconnaissance Survey for the project site. As a result of this request and on the recommendation of our Christopher B. Burke, we are requesting a proposal from Northern Illinois University to provide the professional services for the enclosed scope.

The Phase I scope of service should be broken down by task and justification of cost for each task should be included. As a minimum, the scope of services should include direct cost, (i.e.: printing, travel expenses, etc.), fieldwork and office/report preparation. A detail explanation describing what is included, as well as what is not included, should be completed for each task. Although there is only a remote chance of finding remains on this site, we would also request that you include a scope of services and cost to complete a Phase II for this site. The estimated cost for each Phase of service should be a not to

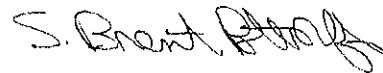
northemrequestletter

exceed amount. Once our office has reviewed the scope of services and cost, we will prepare a sub-consultant agreement for your execution.

We have enclosed an exhibit of the project area and request letter from the Illinois Historic Preservation Agency. The scope of service to be provided from Northern Illinois University will require an amendment to our original contract with the City of Elgin. Therefore, no work should begin until we have authorization to proceed from the City of Elgin. Should you have any questions pertaining to this scope of services, please give me a call.

Sincerely,

Crawford, Murphy & Tilly, Inc.



S. Brent Pottorff
Senior Technical Manager

cc: CMT Project File



NORTHERN ILLINOIS
UNIVERSITY

Mr. S. Brent Pottorff
Crawford, Murphy, & Tilly, Inc.
600 North Commons Drive, Suite 107
Aurora, Illinois 60504

DEPARTMENT OF ANTHROPOLOGY
DeKalb, Illinois 60115-2854
(815) 753-0246

Re: Phase I Archaeological Survey
9 Acre Spartan Drive Extension
Kane County, Illinois
ASSR Vol. 13, No. 22

Dear Mr. Pottorff:

Enclosed please find the Archaeological Survey Short Report (ASSR) forms for the above referenced project. **Please forward three sets of the documents to the Illinois Historic Preservation Agency for review.**

The field inspection was conducted from December 3, 2003 to December 15, 2003 by Supervisor Karen A. Atwell and Crew Member Karen Righeimer.

No archaeological remains were encountered during the inspection. On the basis of the results of investigation, the project is recommended for clearance from an archaeological perspective.

If you have any questions or comments, please contact me at our Northern Illinois University office (815-753-7544).

Sincerely,

Mark W. Mehrer, PhD
Associate Professor
Director, NIU-CAP

MWM: kat
enc.

TAB 6

Engineering Plans for the ECC Parking Lot Expansion

Prepared By: Wills Burke Kelsey Associates, Ltd.



Elgin
Community
College

**Elgin Community College
Parking Lot Expansion**

USACE Permit Submittal

